



**Towson State University  
Graduate School Bulletin  
1982-1983**

The student is responsible for complying with the provisions and requirements as they are written in this publication; however, the provisions of this publication are not to be regarded as an irrevocable contract between the student and Towson State University. The University reserves the right to change any provision or requirement at any time within the student's term of residence or to add or withdraw course offerings.

#### ACCREDITATION

Towson State University is accredited by the Middle States Association of Colleges and Secondary Schools, the Maryland State Board of Education and the National Council for the Accreditation of Teacher Education. The University is a member of the American Northeastern Association of Graduate Schools. It is approved by the American Association of University Women.

#### TOWSON STATE UNIVERSITY BULLETIN

Volume XVI

1982-1983

# ACADEMIC CALENDAR 1982-1983

## 1982 FALL SEMESTER

Aug.	17	Tues.	*Registration in University Union (in person).
	18	Wed.	*See registration time schedule in fall evening schedule.
Sept.	1	Wed.	Classes begin.
Oct.	1	Fri.	Final date to apply for advancement to degree candidacy and comprehensive examinations. Final date to submit graduation application for December graduation.
Nov.	6	Sat.	Comprehensive examination. (Most advancement to degree candidacy examinations will be administered on this date.)
Dec.	21	Tues.	Last day of examinations and semester.
Jan.	5	Wed.	Commencement

## 1983 SPRING SEMESTER

Jan.	17	Mon.	*Registration in University Union (in person).
	18	Tues.	*See Registration Time Schedule in spring evening schedule.
Jan.	27	Thurs.	Classes begin.
Feb.	15	Tues.	Final date to apply for advancement to degree candidacy and comprehensive examinations. Final date to submit graduation application for June graduation.
Mar.	31	Thurs.	Spring Vacation begins after last class.
April	5	Tues.	Classes Resume
April	9	Sat.	Comprehensive examination. Most advancement to degree candidacy examinations will be administered on this date.
May	19	Thurs.	Last day of examinations and semester.
May	29	Sun.	Commencement.

## 1983 SUMMER SESSIONS

June	1	Wed.	Final date to apply for advancement to degree candidacy and comprehensive examinations. Final date to submit graduation application for Sept. graduation.
June	13	Mon.	First Session day classes begin.
	13	Mon.	Evening classes begin.
July	9	Sat.	Comprehensive examination. Most advancement to degree candidacy examinations will be administered on this date.
	18	Mon.	Second Session day classes begin.

**\*Registration dates are subject to change. Please check the appropriate Schedule Bulletin to ascertain correct dates.**



Dr. Hoke L. Smith, President

# Towson State University

## Graduate School Bulletin 1982-1983

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TOWSON STATE UNIVERSITY  
Towson, Maryland 21204

# THE UNIVERSITY

## HISTORY

The history of Towson State University, the oldest and largest of Maryland's public colleges and universities, began in 1865, when the General Assembly of Maryland established a statewide public school system. The first state teacher training institution was the Maryland State Normal School, which in 1935 became the State Teacher's College at Towson. Formally opened in Baltimore on January 15, 1866, the Normal School was for many years the only institution devoted exclusively to the preparation of teachers for the public schools of Maryland. The school occupied three different locations in the city of Baltimore before moving to its present suburban location in 1915.

In 1946 the arts and sciences program was introduced at Towson. Beginning as a two-year transfer program, it was extended to a four-year, degree-granting program in 1960.

In 1963 the college was authorized by action of the legislature to expand its offerings in the arts and sciences while maintaining a strong program in teacher education, and to change its name from State Teacher's College at Towson to Towson State University.

## ACCREDITATION

Towson State University is accredited by the Middle States Association of Colleges and Secondary Schools, the Maryland State Board of Education and the National Council for the Accreditation of Teacher Education. The University is a member of the American Council on Education and is approved by the American Association of University Women.

## PRIVACY RIGHTS OF PARENTS AND STUDENTS

Towson State University is in compliance with Section 513 (protection of the rights and privacy of parents and students) and Section 514 (protection of pupil rights) of Title V—Education Administration of the Education Amendments of 1974.

## NON—DISCRIMINATION IN EDUCATION AND EMPLOYMENT

Towson State University is in compliance with Titles VI and VII of the Civil Rights Act of 1964, the Equal Pay Act of 1963, Title IX of the Education Amendments of 1972, Titles VII and VIII of the Public Health Service Act, Section 504 of the Rehabilitation Act of 1973, Section 303 of the Age Discrimination Act of 1975, Executive Order 11246/11375 and Article 64A (The Governor's Code of Fair Practices). In accordance with these laws, the university does not discriminate against any individual for reasons of race, color, religion, national origin, sex, age, political affiliation, marital status, or condition of handicap in the admission of students, educational programs and activities, hiring of faculty and staff, or any terms and conditions of employment. The university is also in compliance with federal regulations regarding prohibition of discrimination on the basis of veteran status. Information on these laws and copies of the Affirmative Action Plan of Towson State University are available from the Affirmative Action Officer.



## BOARD OF TRUSTEES

The university is governed by an eleven-member board of trustees—ten members appointed by the governor for nine-year terms— and one student member appointed by the governor for a one-year term. The board also governs the five other state colleges and universities.

The Commission for the Expansion of Public Higher Education in Maryland recommended that the board be created to replace the state board of education as the university's controlling agency. The General Assembly did so in 1963.

## THE CAMPUS AND FACILITIES

The university is situated on a campus of over 326 acres located one and a half miles beyond the northern border of the city of Baltimore. Within an eight-mile radius of the campus are all the cultural advantages of the city of Baltimore—the Peabody Conservatory of Music and Library, the Enoch Pratt Free Library, the Walters Art Gallery, the Baltimore Museum of Art, and the many theaters and other cultural centers necessary for a well-rounded university experience.

Campus buildings and facilities give excellent support to the various university programs. The following are of particular interest to graduate students:

- Stephens Hall, one of the original campus buildings, houses the departments of mathematics and the School of Business Administration. This building, with its clock tower, has become a Baltimore landmark.
- The Albert S. Cook Library has well-developed holdings in the arts and sciences and teacher education. Towson's long history of teacher education is reflected in the extensive collections of bound volumes, reference works and periodicals in the field, as well as substantial holdings on microfilm and microcard. The collections of curriculum materials, textbooks, trade books and audiovisual aids are particularly noteworthy.
- Van Bokkelen Hall is a newly renovated building for the departments of communication sciences and disorders and speech and mass communications. The Speech-Language Pathology and Audiology Clinic is located in this building.
- Glen Esk, formerly the president's home, is now occupied by counseling and psychological services.
- Smith Hall was first occupied in the fall of 1965. Included in the building are biology, chemistry, physics and science education offices, classrooms, laboratories and special function rooms such as student and faculty work and preparation areas. The Watson-King Planetarium is on the top floor. A large addition to the building was completed in 1976. The older section of the building is currently undergoing renovation.
- Linthicum Hall, completed in 1967, is a major classroom building on campus. Many faculty offices are also located here.
- Burdick Hall, the health and physical education building, was completed in 1968; it houses three gymnasiums, an olympic-size swimming pool, classrooms, and various training and dressing rooms.
- The General Services Building, opened in spring 1970, contains offices and shops for the physical plant department, the university police headquarters, and central stores and receiving.
- The University Union, a three-story building opened in the fall of 1971, provides cultural and recreational activities for the entire campus. Located in this building are the post office, book store, box office, dining areas for private and banquet size groups, bowling alleys and a billiard room.

- The Administration Building, a three story structure at the corner of Osler Drive and Towsontown Boulevard, opened in 1972. It contains the principal administration offices. The Graduate School offices are located on the main level, west end.
- Lecture Hall is part of the three-building complex that contains Hawkins Hall and the Psychology Building. It is equipped with broad space, a large electronic screen, and adjacent seminar rooms. Television cameras are connected with Hawkins Hall and the Psychology Building.
- Fine Arts Building, a \$6.5-million building opened in 1973, houses the departments of art, music, and theatre arts, as well as a main stage theatre, a studio theatre, concert hall, the Holtzman Art Gallery and the Roberts Room, which displays the university's extensive Asian Arts collection.
- Hawkins Hall, part of a three-building complex, houses the School of Education and Instructional Technology. Named for the former president, Earle T. Hawkins, the building is equipped with large, attractive classrooms which can be sectioned into several smaller rooms. Also included in the wing are a reading center, testing modules, and an independent production area with learning carrels.
- Psychology Building is part of the three-building complex that contains Hawkins Hall. It houses the psychology department, and includes learning laboratories, animal laboratories, statistics laboratories and an auditorium with learning cubicles.

## STUDENT SERVICES

Graduate students are welcome to use the facilities and services of the student services division and are invited to attend the many special events presented by the university.

### UNIVERSITY UNION

The University Union is located near the Fine Arts Building and Burdick Hall. The University Union, in cooperation with the academic departments, provides a program of activities in which graduate students are encouraged to participate. These activities are regularly publicized.

The University Union is open Monday through Thursday evenings until midnight, on Fridays and Saturdays until 1 a.m., on Sundays from noon until 9 p.m. Included in the facility are eight bowling alleys, a T.V. lounge, a snack bar, a music listening room, 16 billiard tables, and showers and lockers for commuting students. The facility also includes the University Store, a large cafeteria, a meditation room, a central lounge, an art gallery and a special dining room. Facilities are available for all types of conferences and meetings. The food service area includes catering for any type of event from coffee and doughnuts to a gourmet dinner. Organizational offices and meeting spaces are included in the University Union. Graduate students are encouraged to use the facilities.

### UNIVERSITY STORE

The University Store is located in the University Union. Textbooks, classroom supplies, phonograph records, gifts, magazines, as well as sundry personal items are stocked.



## **TICKET BOX OFFICE**

The ticket box office, located in the Towson Center, provides a discount ticket service for most of the local dinner theaters, movie theaters and other community activities. The telephone number is 321-2244. The ticket box office, located in the University Union, handles tickets for campus events and also sells bus passes. The telephone number is 321-3295.

## **HEALTH CENTER**

The Anita Dowell Health Center is located northeast of Linthicum Hall. It is open weekdays from 7 a.m. to 8 p.m. and thereafter for emergencies. It is open from 7 a.m. to 3 p.m. Saturdays and Sundays. First aid is administered and appropriate referrals are made. All accidents on campus should be reported to the health center immediately. A mental health service is available for students seeking psychiatric help.

## **GRADUATE ASSISTANTSHIPS AND FINANCIAL AID**

The Graduate School of Towson State University offers a limited number of graduate assistantships each year to qualified students recommended by the appropriate department. The stipends for the graduate assistantships are \$2,500 and \$3,000 plus remission of tuition fees. The graduate assistants are required to provide appropriate work for the academic department each week during the semesters in which assistantships are in effect. Application forms for assistantships may be obtained from the graduate office. Detailed information may be obtained by writing to the dean of the Graduate School.

Financial aid for state and federal programs is available to post-baccalaureate students. Information on the following programs may be obtained from the Financial Aid Office (301) 321-2061.

## **FEDERAL AID PROGRAMS**

All financial aid recipients must be admitted as degree candidates, in good standing and enrolled on at least a half time basis (6 credits).

**The National Direct Student Loan Program—NDSL** (formerly National Defense Student Loan) makes loans available to graduate students who have proven financial need. Loans may be as high as \$2500 per year for graduate students depending on the school's available funds. There is no interest charge as long as the student continues in at least half-time status, but there is interest of 5% beginning six months after the student graduates or discontinues attendance. Special education teachers and teachers teaching in economically and culturally deprived areas may receive up to 100% cancellation. Recipients of NDSL funds through the university are required to have an exit interview. During this brief meeting between a financial aid counselor and the borrower, provision of repayment and student privileges will be detailed.

**The College Work-Study Program (CWS)** makes jobs available to students with exceptional financial need. These jobs are usually assigned as part of the "Financial Aid Package." If at all possible, students are placed in positions related to their academic major or special interest. Student employees are paid every two weeks. Recipients are limited by their financial need in the amount they may earn.

To apply for the above federal aid programs, students must complete and mail the Financial Aid Form (FAF) to the College Scholarship Service with instructions that the information be sent to Towson State University. The FAF application fee is \$6.50 (subject to change) and may be obtained from the

Towson State University financial aid office. In addition, a TSU financial aid application (form A) must be obtained and filed directly with the TSU financial aid office. All forms (FAF and Form A) must be received in Towson's financial aid office no later than April 1, 1983 for first consideration. Allow four to six weeks for processing of the FAF application by the College Scholarship Service in meeting the April 1 deadline. Applications received after April 1 are considered on a remaining funds basis only.

## **STATE LOAN PROGRAMS**

The Guaranteed Loan Program as operated in most states provides up to \$5,000 per year for graduate students. The federal government pays the 9% interest for students while they are in college. Repayment of the loan begins six months after the student ceases enrollment on at least a half-time basis. Applications may be received from and must be processed by the financial aid office before final arrangements for the loans are made with the bank or lending institution. Out-of-state students may obtain applications from their local banks or lending institution.

## **RESIDENCE ON AND OFF CAMPUS**

Traditional residence hall facilities are available on campus. The director of residence also provides listings of off-campus accommodations. Arrangements for conferences with the director should be made in advance by calling (301) 321-2516.

## **COUNSELING**

The Glen Esk Counseling Center staff participates in student and faculty concerned activities with the mental health of the university community. Services of trained counselors are available to students in need of assistance in making personal, educational or career decisions. In a confidential and accepting climate, the student is afforded the opportunity to gain deeper insight into his needs and goals.

In addition to individual counseling, the center offers a program of group counseling, limited testing facilities, and extensive vocational and educational information.

## **PARKING**

The operation and possession of motor vehicles in the Towson community and the use of campus parking facilities are privileges extended to university faculty, staff, and students. These privileges carry with them the obligation to observe all regulations.

The map on the cover of this bulletin designates the parking areas for faculty, staff, and students. Student parking permits cost \$9.75 (see registration and fees) and may be obtained when other registration fees are paid.

## **VETERANS AFFAIRS**

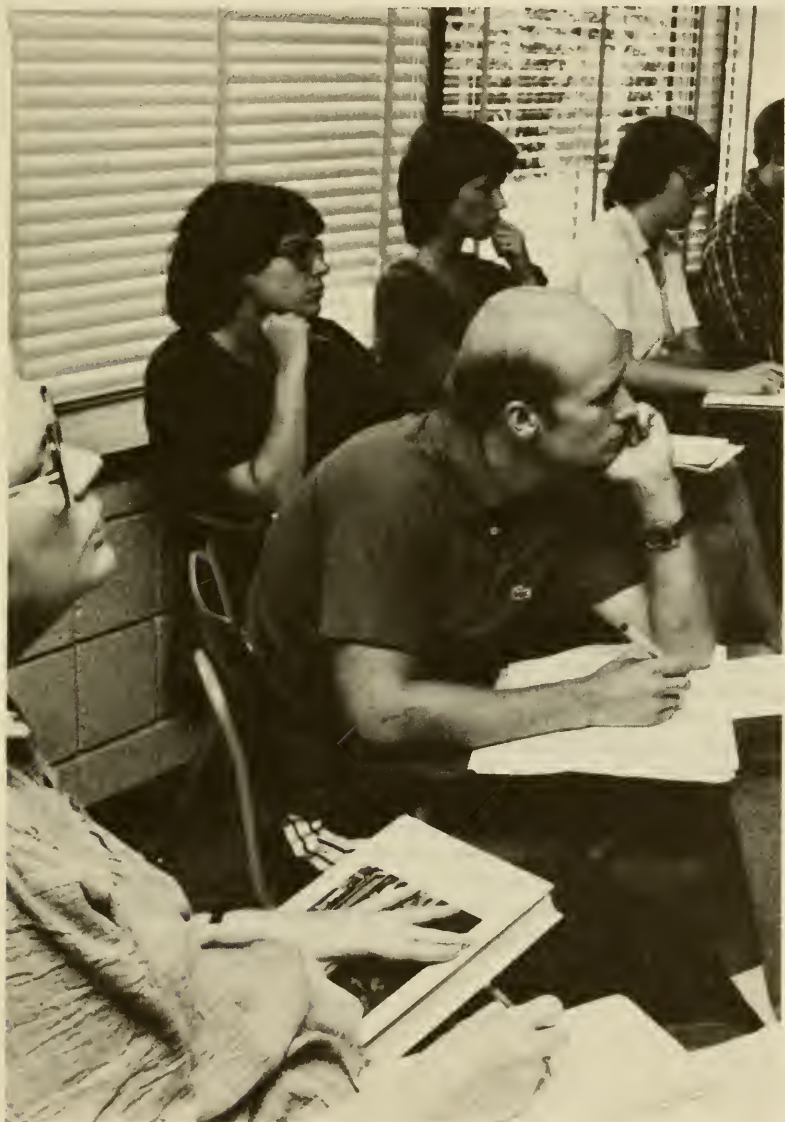
The Office of Veterans Affairs (OVA) provides coordination between veteran/dependent students and the Baltimore Regional Office of the Veteran's Administration. The OVA establishes procedures and prepares forms and correspondence that enable eligible students to receive their educational benefits. Additionally, it monitors class attendance and evaluates academic progress to ensure that satisfactory progress of those receiving benefits is maintained. It also supervises the employment of VA work-study students.

Students taking courses at another institution concurrently with courses at Towson State may be certified for both institutions by the Towson OVA.

The normal period for processing an enrollment certification is six weeks. Certification is not automatic. The proper VA forms must be completed for each semester. It is the responsibility of the individual to apply for educational benefits at the OVA and to notify the OVA when entitlement to benefits changes, or when a change from a degree program or to the number of credits being pursued occurs.

The purpose of veterans benefits at Towson State University is to permit those eligible for the benefits to obtain degrees. It is imperative, therefore, that each veteran be either a degree candidate or in a VA-approved program.

Students may visit the OVA daily from 8:30 a.m.-4:30 p.m. without an appointment.



# THE GRADUATE SCHOOL

## DEVELOPMENT OF GRADUATE STUDIES

Graduate studies at Towson State University began in 1958 with the establishment of a master of education degree program in elementary education. This was initiated after two years of preliminary study and recommendations from teachers and school administrators.

Sixty-seven students were admitted to the degree program in the first session of 1958, and the number of students has increased to the more than 4,500 enrolled in May 1979. Towson State University offers 15 programs leading to the master's degree. A number of other programs are in various stages of planning and approval. The programs presently offered and the dates of approval by the board of trustees are as follows:

### **Master of Arts**

Geography and Environmental Planning	1970
Liberal Studies	1974
Mass Communication	1981
Psychology	1974

### **Master of Education**

Art Education	1965
Early Childhood Education	1968
Elementary Education	1958
Music Education	1969
Reading	1969
Secondary Education	1965

### **Master of Science**

Biology	1970
Health Science	1976
Instructional Technology	1971
Occupational Therapy	1982
Speech-Language Pathology and Audiology	1972

## GRADUATE STUDIES COMMITTEE

The graduate studies committee determines policy for all graduate programs. Matters of graduate curriculum and standards are also the responsibility of the committee. The membership is comprised of the dean of the Graduate School, the chief academic officer, and two graduate coordinators appointed by the president, all of whom serve in ex-officio, non-voting capacities, and six members of the faculty appointed by the president of the university for overlapping terms of three years. The Committee also includes two graduate student members appointed by the president of the university. The chairperson and secretary of the graduate studies committee are elected from the membership of the committee. Meetings are held monthly during the academic year and at other times when necessary.



## GRADUATE SCHOOL COORDINATORS

One Graduate School coordinator administers the master of arts and master of science degree programs; another administers the master of education degree program. Each graduate program is directed by a departmental coordinator appointed by the appropriate department.

A third Graduate School coordinator is responsible for all Graduate School liaison activities with local education agencies. This coordinator also administers Graduate School programs in off-campus centers.

## ADVISEMENT

Graduate student advisement is the responsibility of the Graduate School and departmental coordinators. Students are encouraged to seek an appointment with one of the advisory staff. Conferences with advisers should be arranged by appointment well in advance of registration dates.

## GRADUATE SCHOOL OFFICE HOURS

The Graduate School Office is open each weekday (except for scheduled holidays) from 8:30 a.m. to 5:00 p.m. The office is also open Monday through Thursday evenings until 7:00 p.m. During registration, the office is open in the evening according to the registration schedule. Students may arrange for appointments with the Graduate School staff at other hours. The Graduate School telephone number is (301) 321-2500.

## CORRESPONDENCE

All correspondence concerning graduate study should be addressed to:  
Dean of the Graduate School  
Towson State University  
Towson, Maryland 21204

## LIBRARY PRIVILEGES

Graduate students are issued university identification cards for borrowing privileges. Books and materials from other libraries in the area may be requested on inter-library loan.

### LIBRARY HOURS

Mon.-Thurs.	8:00 a.m. to 10:00 p.m.
Fri.	8:00 a.m. to 5:00 p.m.
Sat.	9:00 a.m. to 5:00 p.m.
Sun.	1:00 p.m. to 9:00 p.m.

The faculty reserve room is open Sunday through Thursday until midnight.

## SCHEDULING OF COURSES

Most 500-level and 600-level courses are offered after 4:00 p.m.

## STUDENT RESPONSIBILITY

It is the responsibility of the student to become knowledgeable of, and to observe, all university policies, regulations and procedures. In no case will a waiver of requirements or an exception be granted because a student pleads ignorance of policy of regulation or asserts that he or she was not informed of a specific requirement by an advisor or other university authority. The student should become especially familiar with (1) the regulations of this bulletin, (2) the section presenting requirements for the degree sought, (3) and the offerings and requirements of the student's major department.

While the provisions of this bulletin will ordinarily be applied as stated, Towson State University reserves the right to change any provision listed in this bulletin, including but not limited to academic requirements for graduation, without actual notice to individual students. Every effort will be made to keep students advised of any such changes. Information on changes will be available from advisors and in the dean's office. It is especially important to note that it is the individual student's responsibility to keep apprised of current graduation requirements for his/her particular degree program.





# **ACADEMIC REGULATIONS GOVERNING GRADUATE AND POST BACCALAUREATE STUDY**

## **ADMISSIONS**

Admission to the Graduate School of Towson State University is granted to all applicants whose academic and personal qualifications give promise of success in graduate study. The applicant must hold a baccalaureate degree from a regionally accredited college or university or one accredited by the Maryland State Department of Education.

All students seeking admission to a graduate degree program, or to take courses carrying graduate credit, must file an application for admission to graduate studies prior to first enrollment and have official transcripts of all college work sent to the Graduate School. Transcripts must be sent directly from the institutions attended to the graduate office of Towson State University. Some programs require such additional admissions devices as letters of recommendation, the Graduate Record Examination, aptitude and/or advanced tests and the Miller Analogies.

## **ADMISSION TO COURSES FOR GRADUATE CREDIT**

An applicant for admission to courses for graduate credit must meet admission requirements in one of two ways: 1) by holding a master's or a doctorate degree from a regionally accredited college or university, or 2) by holding a bachelor's degree from a regionally accredited college or university with a grade average of 3.00 ("B") and satisfactory attainment on all additional admissions devices required by the program. At the option of the coordinator and the department graduate committee the grade average requirement may be satisfied by a 3.00 cumulative average or by a 3.00 average in the most recent 60 credits on the applicant's baccalaureate record. The quality of graduate work taken beyond the bachelor's degree, either as post-baccalaureate (non-graduate credit) courses or graduate credit courses, will be evaluated as part of the undergraduate record.

Students denied admission because of a low academic average (2.00-2.29) may register for courses as non-degree students, and may take upper division and 500-level courses in order to raise the cumulative average to a 2.30. At that time the student may again apply for admission. Courses taken to raise the cumulative average cannot be applied to a degree program. A student with a cumulative average between 2.00 and 2.29 may also become eligible for conditional admission by attaining a score of 1,500 or higher on the aptitude portion of the Graduate Record Examination.

All required application credentials (see General Admissions Policy) must be filed with the dean of the Graduate School no later than July 15 for the fall semester, November 15 for the spring semester, and March 15 for the summer session to be considered for admission. Those granted full admission may register for courses numbered 100-799, but will receive graduate credit only for graduate level courses numbered 300-799 completed with grades of "C" or better. Some 300-level and 400-level courses do not carry graduate credit and are not listed in the Graduate Bulletin.

## **CONDITIONAL ADMISSION**

Conditional admission may be granted to those students whose academic achievement falls short of the standards required for full admission if one of the following requirements is met:

1. Academic average in collegiate work--at least 2.30.
2. Academic average in collegiate work--at least 2.00 and a score of 1,500 or higher on the aptitude portion of the Graduate Record Examination.

Note: Individual graduate programs may require higher averages than those indicated in 1 and 2 above.

The conditional admission policy of the Graduate School follows:

1. Students must complete nine semester hours at the 500 level with a "B" average. The courses may be selected by the students, but must be approved in writing by the program coordinator.
2. Courses for conditional admission are specified by the coordinator and may be at the 300-500 levels.
3. Registration for 600-level courses is not be permitted until the student receives full admission.
4. Conditional admission courses must be completed with a "B" average, within a period of three semesters and may not be repeated.

## **NON-DEGREE STUDENTS**

Students who do not meet the standards required for full admission are permitted to register for courses from the 100 through the 500 levels.

Students who desire full admission but who fail to file the required application credentials in advance must register on a conditional basis for the semester. They are considered for full admission if their application credentials are received by the Graduate School before the end of the first quarter of the semester. If they are granted full admission, they will then be permitted to receive degree credit for satisfactory completion of any courses that have been taken for graduate credit, provided the courses are applicable to the degree program.

## **ADMISSION PRIOR TO RECEIVING BACCALAUREATE DEGREE**

Admission may be granted to seniors in their final semester whose required application credentials are incomplete because the baccalaureate degree has not yet been conferred. Evaluation will be made on the basis of undergraduate work through the first semester of the senior year. Standing granted in the pre-degree category can be made by the graduate program coordinator, enabling the student to begin work in courses carrying graduate credit immediately upon completion of the senior year. Applicants must complete all application credentials during the first month after classes begin in the semester of course work. Admission standing is subject to cancellation or change if the admission credentials remain incomplete or do not meet the requirements for admission.

## **GRADUATE WORK BY SENIORS AT TOWSON STATE UNIVERSITY**

Seniors at Towson State University may register for a maximum of six credit hours in the Graduate School if they meet the following requirements: 1) the graduate courses must be in excess of the credits required for the bachelor's degree; 2) a written request from the student for permission for graduate credit register (which requires a 3.00 average). The request must be submitted in advance for specific graduate courses (by July 15 for the fall semester, November 15 for the spring semester, and March 15 for the summer session), and must be approved by the dean and the appropriate graduate departmental coordinator; 3) all required application credentials must be submitted (see General Admissions Policy), and the student must be granted full admission prior to initiation of further course work. The courses may be transferred to the student's graduate record after the student has been advancement to degree candidacy in the degree program.

## **CANDIDATES FOR DEGREES AT OTHER INSTITUTIONS**

Students who are candidates for an advanced degree at another college or university may enroll as a graduate student at Towson State University for occasional work. The student must present, at least two weeks before registration, a letter from the graduate dean of the home institution indicating that he/she is in good standing and that credit earned at Towson State University is acceptable toward his/her degree.

## **FOREIGN APPLICANTS**

Admission should be sought at least six months prior to the date of anticipated enrollment. All required admission requirements must be received in the graduate office prior to evaluation for admission. Credentials required are:

1. An application for admission to graduate studies
2. Official or certified true copies of all grade reports, diplomas, and academic records attesting to the completion of undergraduate work
3. A letter from the student stating plans for attending, and reasons for selecting, Towson State University
4. A financial summary stating amounts and sources of support for the proposed duration of study
5. Acceptable scores on the Test of English as a Foreign Language (TOEFL) is required if English is not the first language. Information about the TOEFL may be obtained from TOEFL, Educational Testing Service, Princeton, New Jersey 08540.

## **CONTINUOUS ENROLLMENT**

Each student is expected to register for courses on a regular basis.

## **ADDRESS CHANGE**

Students should notify the Graduate School office of change of address during their period of enrollment.





# ACADEMIC REGULATIONS

## PROGRAM OF STUDY

A program of study should be planned with an advisor during the semester that the student is granted full admission. A maximum of nine credits at the 300 and/or 400 level taken for graduate credit may be included in the program of study. Courses taken for graduate credit at the 300-400 levels have a graduate component which requires additional assignments to be completed by the student. Revision of the program of study may be accomplished only with the advisor's approval. The program must be planned prior to advancement to degree candidacy.

Courses taken prior to the planning of the program of study are subject to the approval of the appropriate graduate coordinator. Courses taken for undergraduate credit may not be repeated for graduate degree credit.

## TIME LIMITATION FOR COMPLETION OF DEGREE REQUIREMENTS

All requirements for the master's degree are to be completed within a seven-year period. The scheduled time is determined from the date of the first course in the degree program at Towson State University, or the date of any course allowed transfer credit, whichever is earlier.

## GRADING SYSTEM

The letter "A" designates work of superior quality; "B," work of good quality; "C," work of satisfactory quality; "F," work of unsatisfactory quality for which no credit is given; "FX" is assigned when the student registers for a course and does not attend, or neglects to withdraw officially from the course by the published last date of the course.

A mark of "I" (Incomplete because of illness or other reason beyond control of the student) at the end of a semester carries no credit. Unless such a course is satisfactorily completed by the last day of the next regular semester, the grade for the course becomes "F." It is the responsibility of the student to make arrangements to complete course requirements for removal of the "I."

The grade of "IP" (In Progress) may be assigned for certain courses that are on-going in nature such as thesis and masters project.

In computation of grade point averages, the following quality point values are used:

A—4 quality points

B—3 quality points

C—2 quality points

F, FX—0 quality points

Students may repeat a course once when a mark of "F" or "FX" has been awarded. Courses for which the grade of "C" or higher was earned may not be repeated. The grade of "W" (withdrawn) does not replace a previously awarded grade. When the course is repeated the student receives the credits for the course (counted once) and the higher of the two grades. Upon completion of the repeated course, a change of grade form must be submitted to the registrar by the student. The lower mark earned will not be retained on the student's permanent record.

## **TRANSFER CREDIT**

The following regulations govern the transfer of credits from other regionally accredited colleges:

1. Required courses in a program must be completed at Towson State University.
2. A maximum of six transfer credits may be allowed for graduate work satisfactorily completed at accredited institutions.
3. Application for transfer of courses taken prior to admission may be made after the student attains full admission. Transcripts for these courses must have been submitted at the time of application for admission.
4. Courses utilized as part of an earned degree cannot be transferred.
5. Requests for transfer of credit after a student has been admitted to the Graduate School may be permitted if the student applies in writing to the dean of Graduate School for permission prior to taking a course. The course must be approved for the student's program and not be offered by Towson State University during the period of the student's attendance.
6. All transfer credits must be completed with a grade of "B" or higher, and within the span of seven years allowed for completion of the degree requirements.
7. The University will not accept for transfer course credit which does not apply to a graduate degree at the offering institution.
8. Transfer credits will not be used in computing academic averages. The courses will appear on the Towson State University transcript with the title and credits earned, but without grades earned.

## **COURSE LOAD**

A student who registers for nine graduate semester hours is considered a full-time student. One who takes fewer hours is designated a part-time student. The maximum load for full-time students is 12 credit hours.

## **STANDARDS OF ACADEMIC WORK**

In order to remain in good standing, a candidate for the master's degree must maintain a 3.00 average in all courses taken for graduate credit whether or not they are required for the degree.

A letter of academic warning is sent to any degree candidate with less than a 3.00 average. The 3.00 average is necessary to take the comprehensive examination, if required in the degree program, and to graduate. Restoration of the average to 3.00 may be accomplished by repeating courses for which an "F" grade was earned, or by taking additional courses. If credits must be taken beyond the program requirements to raise the average, a maximum of six semester hours approved by the program coordinator is allowed.



## **ACADEMIC INTEGRITY**

The Graduate School of Towson State University expects students to maintain a high standard of academic integrity. Inappropriate classroom conduct, cheating, and plagiarism may result in disciplinary action by the graduate studies committee.

Instructors are responsible for maintaining the academic integrity of courses and will initially handle problems of classroom conduct, cheating, and plagiarism in a discussion with the student. Unauthorized assistance in preparing materials which are submitted as original work by the student constitutes a violation of academic integrity and will result in action being taken. The instructor may lower the student's grade or give a failing grade for the course. If the instructor decides that further action is warranted, he/she will notify the student that a formal charge will be made to the graduate studies committee. A written report of the incident will be filed with the committee.

The committee will review the facts of the case and make a decision regarding the status of the student in the graduate school. The committee will either absolve the student of the violation or impose a penalty. The penalty may be, but is not limited to, the following:

1. agreement that the lowered course grade is sufficient disciplinary action
2. mandatory suspension from taking courses for graduate credit for a designated period of time
3. dismissal from Graduate School

## **CHANGE FROM ONE DEGREE PROGRAM TO A DIFFERENT PROGRAM**

Students may not be enrolled in two master's degree programs concurrently. A student may request a change of program at any time subject to the following:

1. The student must complete an action request form or write a letter to the dean of the graduate school requesting a change of programs
2. The standing granted in the original program is no longer in effect and the student is evaluated as are other applicants
3. The standing granted in one program does not guarantee similar standing in a second program
4. The student enters the new program subject to policies in effect at the time of the change.
5. The student has the right to return to the first program without restrictions if he/she requests the return during the 60 days immediately following the request to change programs
6. The student may return to the original program after the 60 day period subject to admission policies in effect at the time the student reapplies.



# **DEGREE REQUIREMENTS**

## **REQUIREMENTS FOR THE MASTER'S DEGREE**

1. Satisfactory completion of all undergraduate requirements listed as prerequisites for the degree
2. Filing of a program of study with the dean of the Graduate School
3. Advancement to degree candidacy
4. At least one course must be taken after the semester in which the student has been advanced to degree candidacy
5. A 3.00 average in all graduate work at Towson State University and a 3.00 average in all courses included on the student's program of study.
6. Satisfactory completion of the comprehensive examination if required for the program in which the degree is sought
7. Satisfactory completion of the thesis and thesis defense if the thesis option is selected
8. Filing of the diploma card
9. Payment of graduation fee

## **ADVANCEMENT TO DEGREE CANDIDACY**

All students in programs leading to the master's degree must attain advancement to degree candidacy. An application for advancement to degree candidacy should be made after nine hours of graduate courses have been completed and prior to the completion of 15 graduate hours. The following requirements govern eligibility for advancement to degree candidacy:

1. A minimum of six credits in 500-level and 600-level courses
2. A 3.00 average in all graduate work at Towson State University
3. Successful completion of the advancement to degree candidacy examination
4. Filing of a program of study with the dean of the Graduate School
5. Completion of all undergraduate requirements listed as prerequisites for the degree
6. At least one course for which the student may not register until advanced to degree candidacy (applies to students admitted fall 1980 and later).

Students are urged to meet the requirements of, and to make application for, advancement to degree candidacy within the 9- to 15-hour framework. Advancement to degree candidacy must be attained at least one semester prior to the semester in which the student will graduate (prior to January 1 for June graduation, prior to June 1 for September graduation, and prior to September 1 for December graduation).

## **ADVANCEMENT TO DEGREE CANDIDACY EXAMINATION**

The student must pass a written examination to advance to degree candidacy. The purposes of the advancement to degree candidacy examination are to assess student writing competency and to determine the ability to develop program mastery. The examination may be repeated once. In certain programs the examination may also include an oral portion to be administered after the written part has been passed. Application for the examination must be made prior to the date established as the deadline for applying, as stated in the calendar in this bulletin. To be eligible to take the examination the student must have a 3.00 average in all courses taken for graduate credit, whether or not they are required for the degree. Should the student not take the examination or have to repeat it, the application must be submitted again during the semester in which the examination is to be repeated.

In the program leading to the master's degree in instructional technology, the examination requirement may be satisfied by completing 0601.585, "Seminar in Instructional Technology," with a grade of "B" or higher. The programs in early childhood education, elementary education, and secondary education allow satisfaction of the examination requirement if 0801.501, "Educational Ideas in Historical Perspective," is completed with a grade of "B" or higher. The written advancement to degree candidacy examination is required when a grade of "A" or "B" is not attained. In the program leading to the master's degree in general studies, the examination requirement may be satisfied by completing 4901.501, "The Introductory Seminar in General Studies," with a grade of "B" or higher. The student who receives less than "B" is required to remedy major deficiencies revealed by the course. This remedy may be in the form of additional course work, including independent study. When the student fulfills the requirements of the plan, the requirements for advancement are considered completed. The dates for applying to take the advancement examination and the dates of the examinations are shown in the academic calendar on page 1 of this bulletin.

## **WORKSHOP UPPER DIVISION COURSES AND INDEPENDENT STUDY LIMITATIONS**

In all degree programs, a limit of 12 semester hours is placed on workshops, independent study, travel and study, directed, reading, in-service courses, or other special-format courses. No more than six semester hours may be taken in any one format.

A maximum of nine hours of courses at the 300/400 levels may be permitted in a master's degree program.

## **COMPREHENSIVE EXAMINATION**

An option in each program is the requirement of a final comprehensive examination. This examination cannot be taken earlier than the term during which the student will complete all course work for the degree. The examination may be repeated only once. Application for the examination must be made prior to the date established as the deadline for applying, as stated in the calendar on page 1 of this bulletin. Should the student not take the examination after having applied, a new application must be submitted.

## **THESIS PROCEDURE**

Students intending to write a thesis as partial fulfillment of the requirements for the degree should obtain the brochure "Writing a Thesis at Towson State University" from the Graduate School office.

## **APPLICATION FOR GRADUATION**

Each student must make application for graduation by submitting the Graduate School diploma card and paying the appropriate graduate fee. The diploma card must be submitted by the published deadline date in the academic calendar on page 1 of this bulletin. Students submitting the diploma card late must delay graduation for one semester.

If the student does not graduate at the indicated time, the diploma card must again be submitted during the semester in which graduation is desired. The graduation fee will be required with the first submission of the diploma card, but not with subsequent submissions.



# REGISTRATION AND FEES

## REGISTRATION

Information concerning registration may be obtained in the graduate office prior to each session. Students may avail themselves of the opportunity to register by mail. Post-baccalaureate students who have never applied for admission and are registering for the first time may take 300-500 level courses for graduate credit by completing the "application for admission to graduate studies." Registration for 600- and 700-level courses is contingent upon the granting of graduate student standing.

## FEES

Tuition and other fees are subject to change without notice by action of the board of trustees.

Application fee: a non-refundable fee assessed each student	\$10.00
Tuition: undergraduate, per semester hour	\$40.00
graduate, per semester hour	\$59.00
Athletic fee: per semester hour; non-refundable	\$ 2.00
Registration fee: (non-refundable)	\$15.00
General university fee: (non-refundable)	\$14.50
Late registration fee (non-refundable)	\$15.00
Change of course fee: (non-refundable) assessed for the addition or subtraction of courses from either the original application or from the registration form	\$ 5.00
Transcript fee: (first copy free)	\$ 2.00
Car registration: an assessment for each student bringing a car on campus (each semester)	\$9.75
Final or make-up examination fee: if an examination is administered at other than the designated time	\$ 5.00
Laboratory fee: charges for certain courses	see course description
Private music lessons:	\$50.00 per semester hour plus tuition
Graduation fee: for master's degree plan A (with thesis)	\$30.00
plan B (without thesis)	\$25.00



# GRADUATE PROGRAMS

## PROGRAMS

### Master of Arts

Geography and Environmental Planning  
Liberal Studies  
Mass Communication  
Psychology

### Master of Science

Biology  
Health Science  
Instructional Technology  
Occupational Therapy  
Speech-Language Pathology and Audiology

### Master of Education

Art Education  
Early Childhood Education  
Elementary Education  
Music Education  
Reading  
Secondary Education

## M.A. IN GEOGRAPHY AND ENVIRONMENTAL PLANNING

The master of arts degree program in geography and environmental planning is designed to prepare students for doctoral programs as well as for career opportunities in private business and public agencies. The program is oriented toward applied geography and presents possibilities for a concentration in the following areas: urban-regional planning, urban studies, public policy issues, physical geography, economic development, environmental assessment, energy resources, cultural-historical geography, medical geography, population, area studies, and cartography.

The department also participates in a number of interdisciplinary programs and cooperates closely with programs in health science, biology, physics, education, economics, and sociology. Graduate students in geography and environmental planning are encouraged to take pertinent coursework in other departments.

### Requirements

1. Undergraduate requirements
  - a. An undergraduate minor in geography or the equivalent in related courses and/or professional experience
  - b. "B" grade average in the geography courses presented for admission
2. Requirements for the degree

A program of study will be prepared by each student in consultation with his/her advisor. All students must present evidence of at least four semesters of college-level competency in one foreign language or present evidence of quantitative competency. Successful completion of GEOG 2206.375, Quantitative Methods in Geography (or an approved equivalent), plus at least one other approved course in statistics or computer techniques are assumed to constitute quantitative competency. Students elect one of the following two plans of study:



- a. Plan A. Master of Arts with thesis, includes:
  - 1) Completion of a total of at least 30 semester hours of prescribed and elective course work in geography, six of which will be met by a thesis.
  - 2) At least 21 semester hours in geography earned at the 500- and 600-levels.
  - 3) A thesis in geography which demonstrates the ability to do independent research
  - 4) Course requirements for the degree
    - (a) GEOG 2206.501 (3)
    - (b) GEOG 2206.521 (3)
    - (c) GEOG 2206.798 (Thesis) (6)
    - (d) electives (planned with advisor) 18 s.h.
- b. Plan B. Master of Arts without thesis, requires:
  - 1) Completion of at least 36 semester hours of prescribed and elective course work in geography
  - 2) At least 24 semester hours in geography earned at the 500- and 600-levels
  - 3) Course Requirements for the degree
    - (a) GEOG 2206.501 (3)
    - (b) electives (planned with advisor) (33 s.h.)
3. Advancement to candidacy examination  
 The examination may be taken after the completion of nine semester hours (six of which must be at the 500-600-levels) but not later than the semester following the one in which 15 semester hours are completed. Part of the examination may be conducted orally.
4. Comprehensive examination  
 A comprehensive examination is required at the conclusion of all degree requirements in this field. Normally this is an oral examination.

## **M.A. IN LIBERAL STUDIES**

The master of arts degree in liberal studies is for students who wish to pursue an individually planned program of study not possible in a traditional master's degree program. The liberal studies program is interdisciplinary in nature, but the student may develop a concentration in a specific discipline if desired.

### **Requirements**

1. Undergraduate requirement—bachelor's degree from an accredited college or university.
2. Course requirements for the degree (minimum 36 hours)
  - a. Required courses
    - 1) GEST 4901.501, Introductory Seminar in Liberal Studies (3)  
 This course must be taken within the first nine hours of degree work.
    - 2) GEST 4901.502, Culminating Seminar in Liberal Studies (3)  
 This course must be taken during the last semester of the degree program.

b. Planned elective courses (30 s.h.)

- 1) The elective credits must be approved for the student's program of study in advance of enrollment for the courses.
- 2) At least 21 of the elective credits must be taken at the 500- or 600-levels.
- 3) Twelve s.h. must be taken in the Graduate School at Morgan State University.
- 4) No more than 18 of the elective credits may be taken in any single discipline.

## **M.A. IN MASS COMMUNICATION**

The master of arts degree in mass communication is structured to integrate communicology, film, journalism, public relations, radio and television. By emphasizing the interrelationships and interactions of various media, the program is modeled upon an holistic design.

Students who complete the master of arts degree in mass communication should have developed an in-depth knowledge of the history, philosophy, research methods and professional media skills appropriate to their academic pursuits and career goals.

### **Requirements**

1. Undergraduate requirements

- a. A bachelor's degree in mass communication  
or

- b. A minimum of 24 s.h. in mass communication or mass communication related courses approved by the graduate coordinator. The major or the 24 s.h. must include:

- 1) The following courses or their equivalents: 0605.355 or 0605.356; 0605.315; and 2001.111 or 1701.231
- 2) Courses in three of the following areas: communicology, film, journalism, public relations, radio, television, English, psychology, or business administration

2. Requirements for the degree—they may be met by completing either of the following plans of study.

a. Plan A. Master of Arts with thesis (30 s.h.)

- 1) Completion of a total of 24 s.h. of course work. A minimum of 21 must be earned at the 500/600 levels. The remaining semester hours may be selected from 400-, 500- or 600-levels.

a) Required courses

- 1) MCOM 0605.501, Media Writing (3) and MCOM 0605.521, Mass Media Law and Regulations (3). Both courses must be taken within the first 12 hours of degree work.
- 2) MCOM 0605.515, Administrative and Professional Communicology (3) and MCOM 0605.601, Media Interrelationships (3)
- 3) Either 0605.611, Theories in Mass Communication (3) or 0605.621, Research Methods in Mass Communication (3)

b) Elective courses (9 s.h.)

The elective credits must be approved by the student's graduate advisor prior to enrollment in the courses.

- c) a thesis (6 s.h.) which demonstrates the student's ability to do independent research in Mass Communication

b. Plan B. Master of Arts without thesis (33 s.h.)

Course requirements for the degree

1) A minimum of 24 s.h. must be earned at the 500/600 levels. The remaining semester hours may be selected from 400-, 500- or 600-levels.

a) Required courses except for thesis are identical to plan A

b) Elective courses (18 s.h.)

The elective credits must be approved by the student's graduate advisor prior to enrollment in the courses.

c) A maximum of six semester hours of all practicums, independent studies and internships will be counted toward the degree.

d) Advancement to degree candidacy examinations

The examination may be taken after completion of nine s.h. (six of which must be at the 500- and 600-levels) and should not be taken later than the semester following the one in which 15 s.h. are completed. Part of the examination may be conducted orally.

e) A final comprehensive examination

1) a four-hour written comprehensive examination

2) a two-hour oral comprehensive examination

## **M.A. IN PSYCHOLOGY**

The master of arts degree program in psychology offers the student an opportunity of in-depth specialization in one of four psychological areas. The areas are clinical psychology, counseling, experimental psychology and school psychology. Each is described below in detail with reference to objectives and requirements.

### **CLINICAL PSYCHOLOGY**

The area of clinical psychology aims primarily at training M.A.-level psychologists for employment in state and other nonprofit organizations. These psychologists will be able to provide services to patients and clients under the direct and continuing supervision of psychologists certified by the State Board of Examiners of Psychologists and a medical staff. The program also seeks to prepare students for further graduate study in psychology.

#### **Requirements**

1. Undergraduate requirements in psychology (total 24 s.h.)

a. Courses in the following areas:

1) General Psychology (3)

2) Child Psychology (3)

3) Adolescent Psychology (3)

4) Abnormal Psychology (3)

5) Personality (3)

6) Behavioral Statistics (3)

7) Tests and Measurements (3)

8) Experimental Psychology or Learning (3)

NOTE: These courses cannot be used to meet part of the formal elective requirements for the degree as defined in paragraph 2 below.

a. Acceptable performance on the aptitude test of the Graduate Record examination

b. An interview with the coordinator of the clinical psychology area

c. Two letters of recommendation

2. Course requirements for the degree may be met by completing either one of the following plans of study:
  - a. Plan A: Master of arts without thesis (minimum 39 s.h.)
    - 1) Required courses
      - \*a) PSYC 2001.531 Advanced Abnormal Psychology (3)
      - \*b) PSYC 2001.520 Psychodiagnostics I: Intelligence (3)
      - \*c) PSYC 2001.661 Psychodiagnostics II: Personality Evaluation (3)
      - d) PSYC 2001.663 Psychodiagnostics III: Consultation (3)
      - e) PSYC 2001.565 Psychotherapy and Behavior Change I (3)
      - f) PSYC 2001.566 Psychotherapy and Behavior Change II (3)
      - g) PSYC 2001.553 Research Issues in School/Clinical Psychology (3)
      - h) PSYC 2001.551 Techniques of Intervention (3)
      - i) PSYC 2001.690 Seminar in Professional Psychology (3)
      - j) PSYC 2001.597 Practicum in Clinical Psychology (3)
      - k) PSYC 2001.652 Internship in School/Clinical Psychology (3)
    - \*Courses must be completed or in progress prior to advancement to degree candidacy examination.
    - 2) Electives—Six semester hours of courses are elected by the student from within or outside the field of psychology to complement the program of study. Such courses must have prior written consent of the area coordinator.
  - b. Plan B: Master of arts with thesis (minimum 39 s.h.)
    - 1) Required courses are identical to those in plan A
    - 2) One elective is dropped to permit registration for the thesis course, PSYC 2001.798 (3)

NOTE: A final comprehensive examination is required; additionally, the internship carries with it a residency requirement of one semester. The student must be available for placement in a clinical setting.

## COUNSELING

The purpose of the counseling area is to develop professionally responsible individuals capable of facilitating a counselee's personal growth and development. He/she is trained to help the client explore educational, vocational and personal goals, and seeks to facilitate the counselee's development of a meaningful course of action in these areas. The training program requires an understanding of psychological principles and reflects professional practices and responsibilities consistent with current research findings. Graduates of the counseling program must demonstrate proficiency in two areas. A student must successfully complete the advancement to candidacy and comprehensive examinations in order to show that he or she is thoroughly grounded in those theoretical, research, and other academic competencies upon which successful counseling is based. Since counseling psychology is an applied field, the student must successfully demonstrate the utilization of appropriate skills and techniques in helping actual clients to identify and to solve personal problems. The student must select a concentration in counseling from:

- a. elementary school counseling
- b. secondary school counseling
- c. career counseling
- d. community counseling
- e. rehabilitation counseling

## Requirements

1. Undergraduate requirements
  - a. Courses in the following areas:

- 1) General Psychology (3)
- 2) Behavioral Statistics (3)
- 3) Introduction to Tests and Measurements (3)
2. Additional undergraduate requirements in psychology (3)
  - a. For students applying for elementary school counseling concentration: Child Psychology (3)
  - b. For students applying for secondary school counseling concentration: Adolescent Psychology (3)
  - c. For students applying for career counseling concentration: Child or Adolescent Psychology (3)
  - d. For students applying for community counseling concentration and rehabilitation counseling concentration: Abnormal Psychology (3)
3. Course requirements for the degree (minimum 39 s.h.)
  - a. Required courses for all candidates (12 s.h.)
    - 1) PSYC 2001.515 Introduction to Research Methods in Counseling (3)
    - 2) PSYC 2001.505 Counseling Techniques (3)
    - 3) PSYC 2001.507 Applied Theories of Counseling (3)
    - 4) PSYC 2001.621 Group Counseling (3)
  - b. Elementary School Counseling:
    - 1) PSYC 2001.509 Counseling Psychology—Pre-Practicum (3)
    - 2) PSYC 2001.511 Developmental Psychology (3)
    - 3) PSYC 2001.515 Introduction to Research Methods (3)
    - 4) PSYC 2001.605 Principles of Guidance (3)
    - 5) PSYC 2001.606 Introduction to Career Development (3)
    - 6) PSYC 2001.611 Analysis of the Individual (3)
    - 7) PSYC 2001.621 Group Techniques in counseling (3)
    - 8) PSYC 2001.630 Counseling the Elementary School Child (3)
    - 9) PSYC 2001.645 Counseling Practicum (6)
    - 10) Elective or Thesis
  - c. Secondary School Counseling
    - 1) PSYC 2001.509 Counseling Psychology—Pre-Practicum (3)
    - 2) PSYC 2001.511 Developmental Psychology (3)
    - 3) PSYC 2001.515 Introduction to Research Methods (3)
    - 4) PSYC 2001.605 Principles of Guidance (3)
    - 5) PSYC 2001.606 Introduction to Career Development (3)
    - 6) PSYC 2001.611 Analysis of the Individual (3)
    - 7) PSYC 2001.621 Group Techniques in Counseling (3)
    - 8) PSYC 2001.627 Use of Tests in Counseling (3)
    - 9) PSYC 2001.645 Counseling Practicum (6)
    - 10) Elective or Thesis (3)
  - d. Career Counseling
    - 1) PSYC 2001.515 Introduction to Research Methods (3)
    - 2) PSYC 2001.605 Principles of Guidance (3)
    - 3) PSYC 2001.606 Introduction to Career Development (3)
    - 4) PSYC 2001.607 Information Service in Guidance and Counseling (3)
    - 5) PSYC 2001.608 Media in Career Education (3)
    - 6) PSYC 2001.611 Analysis of the Individual (3)



- 7) PSYC 2001.621 Group Techniques in Counseling (3)
  - 8) PSYC 2001.627 Use of Tests in Counseling (3)
  - 9) PSYC 2001.645 Counseling Practicum (6)
  - 10) Elective or Thesis (3)
- e. Community Counseling
- 1) PSYC 2001.509 Counseling Psychology—Pre-Practicum (3)
  - 2) PSYC 2001.511 Developmental Psychology (3)
  - 3) PSYC 2001.513 Community Mental Health Counseling (3)
  - 4) PSYC 2001.515 Introduction to Research Analysis (3)
  - 5) PSYC 2001.531 Advanced Abnormal Psychology (3)
  - 6) PSYC 2001.621 Group Techniques in Counseling (3)
  - 7) PSYC 2001.627 Use of Tests in Counseling (3)
  - 8) PSYC 2001.645 Counseling Practicum (6)
  - 9) Elective (3)
  - 10) Elective or Thesis (3)
- f. Rehabilitation Counseling
- 1) PSYC 2001.515 Introduction to Research Methods (3)
  - 2) PSYC 2001.561 Foundations of Rehabilitation Counseling (3)
  - 3) PSYC 2001.567 Psychosocial Aspects of Disabilities (3)
  - 4) PSYC 2001.568 Mental Aspects of Disability (3)
  - 5) PSYC 2001.593 Internship in Rehabilitation Counseling (3)
  - 6) PSYC 2001.606 Introduction to Career Development (3)
  - 7) PSYC 2001.621 Group Techniques in Counseling (3)
  - 8) PSYC 2001.627 Use of Tests in Counseling (3)
  - 9) PSYC 2001.645 Counseling Practicum (6)
  - 10) Elective or Thesis (3)
4. Electives selected by the student must have prior written consent of the advisor and must be approved for the student's program of study.
5. Advancement to degree candidacy examination
- The examination is generally taken in the semester during which 15 semester hours of graduate work are completed; however, the student may elect to take the examination at any time during his/her program of study. The examination consists of two parts: written and oral. The written part must be taken and passed before the student can take the oral section. The examination includes the following course work:
- a. PSYC 2001.505 Counseling Techniques (3)
  - b. PSYC 2001.507 Applied Theories of Counseling (3)
  - c. PSYC 2001.411 Tests and Measurements (3)
  - d. One of the following, depending upon the student's area of concentration: 2001.404, Adolescent Psychology; 2001.361, Abnormal Psychology; 2001.211, Child Psychology.
6. Comprehensive examination
7. Students who fulfil practicum requirements in a public school will be expected to pay a fee to their on-site supervisors.

## EXPERIMENTAL PSYCHOLOGY

The purpose of the experimental psychology area is to educate students in the basic historical, methodological, theoretical and conceptual bases of psychology. The student obtains a firm background in statistics. In addition a meaningful individualized program of electives may be pursued by taking courses in a number of different areas including experimental, physiological, clinical and computer science.



Students who complete this program will be prepared to pursue other advanced degrees in psychology in any specialty area, or compete for such positions as laboratory researcher, or experimental designer, psychometrician.

## Requirements

1. Undergraduate requirements
  - a. Courses in the following areas:
    - 1) Statistics (3)
    - 2) Experimental Psychology (3)
    - 3) Learning (3)
2. Course requirements for the degree (39 s.h.)
  - a. Core Program (29 or 32 hours)
    - 1) PSYC 2001.573 Advanced Experimental Psychology I (4) or PSYC 2001.574 Advanced Experimental Psychology II (4)
    - 2) PSYC 2001.575 Proseminar I (3)
    - 3) PSYC 2001.576 Proseminar II (3)
    - 4) PSYC 2001.577 Learning (3)
    - 5) PSYC 2001.581 Advanced History and Systems (3)
    - 6) PSYC 2001.587 Advanced Experimental Design I (3)
    - 7) PSYC 2001.588 Advanced Experimental Design II (3) or PSYC 2001.589 Multivariate Methods (3)
    - 9) PSYC 2001.798 Thesis (3) or (6)
  - b. Elective courses (7 or 10 hours)

The student may choose any graduate elective at the 300- to 600-level.
3. Advancement to degree candidacy examination.

## SCHOOL PSYCHOLOGY

The area of school psychology offers a master's degree (33 semester hours), and a certificate of advanced study (30 semester hours and an internship) for holders of a master's degree in school psychology. Graduates are prepared for certification as school psychologists in the state of Maryland. Because of the broad application of skills, the students usually are also prepared to serve as M.A. level psychologists in a variety of nonprofit organizations. The program prepares students for doctoral work also.

## Requirements

1. Undergraduate requirements in psychology (total 24 s.h.)
  - a. Courses in the following areas:
    - 1) General Psychology (3)
    - 2) Human Growth and Development (six s.h. selected from the following, to cover both child and adolescent areas)
      - a) Child Psychology (3)
      - b) Infancy and Childhood (3)
      - c) Human Development (3)
      - d) Adolescent Psychology (3)
      - e) Educational Psychology (3)
    - 3) Abnormal Psychology (3)
    - 4) Personality (3)
    - 5) Behavioral Statistics (3)
    - 6) Tests and Measurements (3)
    - 7) Experimental Psychology or Human Learning (3)

NOTE: These courses cannot be used to meet part of the formal elective requirements for the degree, as defined in paragraph 2 below. These courses must be completed prior to initiation of course work for the degree.

- b. Acceptable performance on the aptitude test of the Graduate Record Examination
  - c. A satisfactory interview with the coordinator of the school psychology area
  - d. Two letters of recommendation
2. Course requirements for the degree may be met by completing either of the following two plans of study:

Plan A: Master of arts without thesis (minimum 33 s.h.)

1) Required courses

- \*a) PSYC 2001.531 Advanced Abnormal Psychology (3)
- \*b) PSYC 2001.520 Psychodiagnostics I: Intelligence (3)
- \*c) PSYC 2001.661 Psychodiagnostics II: Personality Evaluation (3)
- d) PSYC 2001.663 Psychodiagnostics III: Consultation (3)
- e) PSYC 2001.511 Developmental Psychology (3)
- f) PSYC 2001.555 Learning Disabilities I: Assessment (3)
- g) PSYC 2001.553 Research Issues in School/Clinical Psychology (3)
- h) PSYC 2001.503 Human Learning (3)
- i) PSYC 2001.651 Practicum in School/Clinical Psychology (3)
- j) PSYC 2001.652 Internship in School/Clinical Psychology (3)
- k) Elective (3)

\* Courses must be completed or in progress prior to advancement to degree candidacy examination

Plan B: Master of Arts with thesis (minimum 33 s.h.)

- 1) Required courses are identical to plan A
- 2) The elective is dropped to permit registration for the thesis course, PSYC 2001.798 (3 to 6 s.h.)

A comprehensive examination is required. The internship requires full-time placement in a school setting for one semester.

### Certificate of Advanced Study in School Psychology Requirements

1. Prerequisites

- a. Possession of a master's degree in school psychology from a regionally accredited college/university
- b. Demonstration that the applicant meets all of the curricular requirements for certification as a school psychologist in Maryland
- c. Three letters of recommendation attesting to the applicant's basic competencies in performing the duties of a school psychologist and to the possession of personal characteristics which would permit sound interpersonal skills

2. Course requirements

a. Required courses

- 1) PSYC 2001.      Learning Disabilities II: Remediation (3)
- 2) PSYC 2001.551 Techniques of Intervention (3)
- 3) PSYC 2001.603 Preschool Assessment (3)
- 4) PSYC 2001.633 Assessment and Treatment of Exceptional Children (3)

- 5) PSYC 2001.525 Behavioral Techniques (3)
- 6) PSYC 2001.631 Administrative and Curricular Aspects of School Environments (3)
- 7) PSYC 2001.690 Seminar in Professional Psychology (3)
- 8) PSYC 2001.673 Practicum in Intervention Techniques (3)
- \*9) PSYC 2001.652 Internship in School/Clinical Psychology (3)

b. Elective (3)

3. A comprehensive examination is required.

- \* The internship requires full-time placement in a school setting. Completed experience may be considered at the time of program entry. If the requirement has been met, an additional elective may be added to the program of studies.

## **M.S. IN BIOLOGY**

The master of science degree program in biology is designed to help the student develop proficiency in independent thought, inquiry, and research. The thesis program will provide the necessary background and experience for those who plan further study for the Ph.D., whose employment requires an advanced degree in biology, or who desire to teach in community colleges. The non-thesis program is designed for those who want a broader background in biology, and secondary school teachers who want to extend their knowledge and increase their competence in cultivating the spirit of scientific inquiry through course work and optional research projects.

### **Requirements**

1. A supplemental application must be filed for admission to the master science degree program in biology.
2. Graduate Record Examination scores on the aptitude test and advanced test in biology must be submitted.
3. Three letters of recommendation from persons familiar with the student's scientific work and aptitude must be sent to the biology graduate coordinator. The letters should be submitted by former instructors in the student's undergraduate major or from a current supervisor in the field of biology.
4. Undergraduate requirements
  - a. Minimum of 24 s.h. in biology
  - b. Allied courses in general and organic chemistry and physics
  - c. Grade point average of 3.00 in biology and 3.00 overall cumulative average is required for full admission. A grade point average of 2.50 in biology and 2.50 overall cumulative average is required for conditional admission
  - d. Students should indicate their area of specialization in order to select an advisor. Those intending to enter the non-thesis program should obtain an interview with the Biology Graduate Coordinator upon admission into the program.
5. Requirements for the degree
  - a. Master of science with thesis (minimum 30 s.h.)
 

At least 21 s.h. at the 500- and 600-levels. A thesis based on laboratory and/or field research is required. The final examination is an oral defense of the thesis. The student must pass the advancement to degree candidacy examination.

    - 1) Required courses 4 s.h.
      - a) BIOL 0401.697 Graduate Seminar (1)

- b) BIOL 0401.798 Thesis (3)
- 2) Elective courses (26 s.h.)
  - a) Selected from courses approved by the student's graduate committee.
  - b) Upon approval of the graduate committee, a maximum of six s.h. in allied courses from other departments may be applied toward degree requirements.

NOTE: The student planning to elect the thesis option should obtain an interview with the graduate program coordinator before initiating course work.

- b. Master of science without thesis (minimum 36 s.h.)
 

At least 27 s.h. must be at the 500- and 600-levels. The student must pass the advancement to degree candidacy examination.

  - 1) Required courses (1 s.h.)
    - a) BIOL 0401.697 Graduate Seminar (1 s.h.)
  - 2) Elective courses (35 s.h.)
    - a) Chosen from courses approved for the program of study by the biology graduate coordinator and must include a minimum of 26 s.h. at the 500 and 600 levels
    - b) Upon approval of the graduate committee, a maximum of six s.h. in allied courses from other departments may be applied toward degree requirements
- 6. Area of concentration
 

Under either the thesis or non-thesis option, a student may, with the approval of the graduate advisor and the biology graduate committee, choose an area of concentration which will be recorded on the transcript.

## **M.S. IN INSTRUCTIONAL TECHNOLOGY**

Students select one of two concentrations. Track I (Instructional Development) offers a flexible program of study designed to develop instructional media competencies for those who wish to work in training or instructional settings in business, industry, government, military or medical education. Track II (Educational Media Generalist) meets the Maryland State Department of Education requirements for the Media Generalist Certification, and is designed for students who wish to serve as directors of school media centers.

### **TRACK I, INSTRUCTIONAL DEVELOPMENT**

#### **Requirements**

- 1. Undergraduate requirements
  - a. Completion of a baccalaureate degree from an accredited college or university
  - b. Completion of the following course or its equivalent:  
0601.301 Utilization of Instructional Media
- 2. Applicants must obtain satisfactory ratings in all admissions tests.
- 3. Conditionally admitted students are required to write an essay. The intent of the essay is to test the competency of the applicants in written communication.
- 4. Course requirements for the degree.
  - a. Plan A: Master of Science with thesis (minimum 33 s.h.)
    - 1) Required courses (18 s.h.)
      - a) ISTC 0601.563 Applied Psychology of Learning (3)
      - b) ISTC 0601.567 Instructional Development (3)

- c) ISTC 0601.585 Seminar in Instructional Technology (3)
- d) ISTC 0601.695 Research in Instructional Technology (3)
- e) ISTC 0601.798 Master's Thesis in Instructional Technology (6)
- 2) Elective courses (12 s.h.)  
Selection of elective courses must be made with the advice and approval of a program advisor. Nine semester hours must be in instructional technology and three hours may be within or outside the department.
- b. Plan B: Master of Science without thesis (minimum 36 s.h.)
  - 1) Required courses except for thesis are identical to plan A.
  - 2) Elective courses (21 s.h.)  
Selection of elective courses must be made with the advice and approval of a program advisor. Twelve semester hours must be in instructional technology and nine semester hours may be within or outside the department.

## **TRACK II, EDUCATIONAL MEDIA GENERALIST REQUIREMENTS**

1. Undergraduate Requirements
  - a. Baccalaureate degree from accredited college or university and the following courses or their equivalents:
    - 1) 2001.201 Educational Psychology (3)
    - 2) 0803.319 Survey of Educational Programs (3)
    - 3) ONE of the following:
      - a) EDUC 0801.401 Foundations of Education (3)
      - b) EDUC 0801.402 History of Education (3)
      - c) EDUC 0801.405 Philosophy of Education (3)
  - b. Completion of the following courses or their equivalents:
    - 1) ISTC 0601.301 Utilization of Educational Media (3)
    - 2) ISTC 0601.471 Reference and Information Sources (3)
    - 3) ISTC 0601.473 Cataloging and Classifying Media (3)
2. Applicants must obtain satisfactory ratings in all admissions tests.
3. Conditionally admitted students are required to write an essay, the purpose of which is to test the applicant's competency in written communication skills.
4. Course requirements for the degree.
  - a. Plan A: Master of Science with thesis (minimum 30-36 s.h.)
    - 1) Required courses:
      - a) ISTC 0601.555 Media Design and Production I (3)
      - b) EDUC 0601.417 Children's Literature (3) or 0801.418 Young Adult Literature (3)
      - c) ISTC 0601.501 Organization and Administration of Media Center Programs (3)
      - d) ISTC 0601.515 Media Selection (3)
      - e) ISTC 0601.563 Applied Psychology of Learning (3)
      - 4) ISTC 0601.567 Instructional Development (3)
      - g) ISTC 0601.585 Seminar in Instructional Technology (3)
      - h) ISTC 0601.695 Research in Instructional Technology (3)
      - i) ISTC 0601.689 Internship in Instructional Technology (required only if the student has not had a practicum or two years of successful teaching of media-related experience) (6)
      - (j) ISTC 0601.798 Master's Thesis in Instructional Technology (6)



- 2) At least 24 semester hours of courses must be at the 500 and 600 levels.
- b. Plan B: Master of science without thesis (minimum 36 s.h.)
  - 1) Required courses are identical to Plan A, except for the deletion of 0601.699, Master's Thesis in Instructional Technology (6)
  - 2) Elective courses (6-12 s.h.)
- 3) At least 27 semester hours of courses must be at the 500- and 600-levels.

## **M.S. IN HEALTH SCIENCE**

Towson State University offers a three-track program leading to a master of science degree with specializations in school health, community health education or administration. The student may enter the program which best meets educational objectives and career goals. Upon completion of the degree program, the student will have acquired knowledge and understanding of the facts, theories and principles basic to the science of school health, community health, or administration in health services as well as in supporting biological, behavioral, sociological and educational areas. The community health education program is designed to meet the accreditation standards of the American Public Health Association.

The student entering the school health track can consider future employment possibilities in the following areas: classroom health teacher, supervisor or coordinator of the health science program within a school system, health educational media specialist, program evaluation specialist within a school system, continuing education and school personnel department.

A graduate of the community health education program may pursue a career as a health education specialist in an official health agency such as a state or local health department, a federal agency or a voluntary health agency. Students holding current credentials in pharmacy, nursing, dentistry, dietetics and other professions may wish to combine their skills from prior training, and redirect their careers toward community education related to their specific prior training. With a master of science degree in community health education, students are also qualified to seek employment with various public health agencies, or expand their own practice. Because the program provides professional training in public health and administrative skills, many other opportunities may be available to the student.

A graduate of the program with administrative concentration will be prepared for positions in public health which require sound backgrounds in both public health and administration.

## **Requirements**

- A. M.S. in school health education and M.S. in community health
  1. Undergraduate requirements
    - a. An undergraduate degree in health education or health science or
    - b. A minimum of 24 semester hours of course work in health and related science, (nine must be in health education, and 15 in psychology, sociology, anthropology, biology or chemistry) or
    - c. Fifteen semester hours of course work in health sciences with related work or field experiences as determined by the graduate faculty of the health science department
- B. M.S. health science, administrative concentration
  1. Undergraduate requirements
    - a. An undergraduate degree in a health science field (nursing, health education, environmental studies, psychology) or

- b. A minimum of 24 semester hours in course work in health and related sciences, with field experiences or continuous employment as accepted by the graduate faculty of the health science department or
- c. A minimum of 15 semester hours in course work in health and related sciences, with field experiences or continuous employment as accepted by the graduate faculty of the health science department.

C. Requirements for the degree

- 1. General requirements are for 27 semester hours of health education courses and a minimum of nine s.h. in a support area such as psychology, sociology, biology, counseling, education, instructional technology, business administration, geography or another approved area. The program of study with the administrative concentration contains 24 semester hours of health science courses and 12 in business administration. Community health education students may select supervised field work rather than the support area.

## **SCHOOL HEALTH EDUCATION**

Health Science Core — 12 s.h. required

- 1201.539 Education and Training in Health Care (3)
- 1201.525 Research Methods (3)
- 1201.685 Graduate Seminar (3)
- 1201.501 School Health Problems (3)

Content Health Core — 6 s.h. elective

- 1201.401 Sex Education and Family Life (3)
- 1201.405 Drugs in Our Culture (3)
- 1201.451 Ecological Aspects of Health (3)
- 1201.537 Leadership Skills (3)

Elective Health Core — 6 s.h.

Supportive Core — 9 s.h.

Final Project 3 s.h.

- 1201.798 Masters Thesis in Health (3) OR
- 1201.797 Graduate Project in Health Science (3)

## **COMMUNITY HEALTH**

Health Science Core — 18 s.h. required

- 1201.539 Education and Training in Health Care (3)
- 1201.515 Research Methods (3)
- 1201.685 Graduate Seminar (3)
- 1201.501 School Health Problems (3)
- 1201.515 Quantitative and Qualitative Elements (3)
- 1201.531 Program Planning in Health Education (3)

Content Health Core — 6 s.h. elective

- 1201.533 Health Care Systems (3)
- 1201.541 Patient Education
- 1201.537 Leadership Skills
- 1201.517 Public Health Administration

Final Project 3 s.h.

- 1201.798 Masters of Thesis in Health (3) OR
- 1201.797 Graduate Project in Health Science (3)

## Administration

Health Science Core — 12 s.h. required

1201.539 Education and Training in Health Care (3)

1201.525 Research Methods (3)

1201.685 Graduate Seminar (3)

1201.515 Quantitative and Qualitative Elements (3)

Content Health Core — 9 s.h. required

1201.501 School Health Problems (3)

1201.531 Program Planning in Health Education (3)

1201.533 Health Care Systems (3)

1201.541 Patient Education (3)

1201.517 Public Health Administration (3)

1201.537 Leadership Skills (3)

Support Core — 12 s.h. Business Administration

0506.361 Management Theory (3) required 9 hours elective

Final Project 3 s.h.

1201.798 Masters of Thesis in Health (3) OR

1201.797 Graduate Project in Health Science.

## MASTER OF SCIENCE IN OCCUPATIONAL THERAPY

The master of science degree in occupational therapy is designed for occupational therapists who wish to gain advanced knowledge and skill in the areas of pediatrics or geriatrics. Within these broad categories, students may choose to focus on education, administration, advanced clinical practice, or research.

Students complete a total of 36 semester hours, of which 27 are taken in the occupational therapy department, and nine in related disciplines as selected by the student in consultation with the graduate coordinator.

### Requirements

1. Undergraduate requirements
  - a. Bachelor's degree from an accredited university
  - b. Completion of an accredited entry level professional training program in O.T.
  - c. Successful completion of the American Occupational Therapy Association Cert. Exam
  - d. An undergraduate G.P.A. of 3.00
2. Requirements for the degree (Minimum 36 semester hours)
  - a. Required courses 15 or 18 semester hours
    - Theoretical Bases of Occupational Therapy (3)
    - Issues in Occupational Therapy (3)
    - Quantitative Methods in O.T. (3)
    - Occupational Therapy Research Seminar (3)
    - Research Project (3) OR
    - Thesis (6)
  - b. Specialization six semester hours (student selects one or two)
    1. Pediatrics — Theory and Practice of Pediatric Assessment in O.T. (3)  
Treatment in Pediatrics for O.T. (3)
    2. Geriatrics — Theory and Practice of Geriatric Assessment in O.T. (3)  
Treatment in Geriatrics in O.T. (3)

c. Elective Courses (12-15 s.h.)

Nine semester hours are elected by the student from courses in fields related to occupational therapy. Three or six semester hours are elected from occupational therapy courses depending on whether the student selects the project or thesis option.

3. Candidacy examination

All students are required to complete a written examination for advancement to candidacy. Advancement to candidacy should be attained after nine to fifteen hours are completed.

## **M.S. IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY**

The master of science degree program in speech-language pathology and audiology is designed to enable pre-professionals in the field, e.g., those with a bachelor's degree in speech-language pathology and audiology, to meet the academic and clinical practicum requirements of the national and state speech-language and hearing associations. The speech-language pathology and audiology program provides the student with (1) an in-depth investigation of specific disorders of speech, language and hearing; (2) intensive study of normal speech and language development; (3) development of appropriate therapeutic goals, procedures, and materials; (4) and extensive clinical practice experience in on-campus and off-campus settings with a variety of clinical cases.

Students elect to specialize in either speech-language pathology or audiology. Applicants indicate their area of emphasis on the application form.

Completion of the degree prepares the individual to meet academic and practicum requirements for certification and licensure to compete for employment in public school, clinical, or hospital settings; and to pursue advanced degrees in this field. All clinical practicum clock hour requirements of ASHA must be completed before the M.S. degree will be awarded.

Individuals without an undergraduate degree in speech-language pathology and audiology must complete 33 s.h. of undergraduate coursework from designated prerequisite courses prior to applying for admissions into the master of science program.

### **Requirements**

1. Undergraduate requirements

- a. Bachelor's degree in speech-language pathology and audiology with a minimum of 33 semester hours or 42 quarter hours. A minimum of one course in clinical practicum is required (students without this course take it as a part of their graduate program, necessitating a 39 semester hour degree program).

OR

- b. Completion of 33 semester hours of undergraduate coursework in speech-language pathology and audiology, including the following courses or their equivalents:

- 1) SPPA 1220.105 Speech and Language Development (3)  
2) SPPA 1220.210 Phonethics of American English (3)

- 3) SPPA 1220.300 Anatomy and Physiology of the Auditory and Vocal Mechanisms (3)
  - 4) SPPA 1220.310 Hearing and Speech Science (3)
  - 5) SPPA 1220.302 Speech Pathology I (3)
  - 6) SPPA 1220.304 Speech Pathology II (3)
  - 7) SPPA 1220.305 Stuttering Etiology and Therapy (3)
  - 8) SPPA 1220.396 Speech Pathology III (3)
  - 9) SPPA 1220.321 Introduction to Audiology (3)
  - 10) SPPA 1220.486 Clinical Observation and Techniques (3)
  - 11) SPPA 1220.487 Clinical Practice I (3)
2. Acceptable evaluation by three persons familiar with the applicant's scholarly and clinical work and aptitude. Evaluations should come from the applicant's former instructors and/or clinical supervisors. Evaluations must be completed on the speech-language pathology and audiology rating form, which may be obtained by calling or writing to the department.
  3. Acceptable performance on the Miller Analogies Test.
  4. Course requirements for the degree
    - a. Speech-language pathology specialization (36 s.h. 27 of which must be at the 500-600 levels)
      - 1) Required courses (3)
        - a) SPPA 1220.513 Introduction to Research in Speech Pathology and Audiology (1)
        - b) SPPA 1220.645 Advanced Clinical Practice (2)  
Taken one s.h. every semester in which any practicum assignment is made until all clinical clock hours are completed. Only two semester hours apply toward the degree.
      - 2) Speech/language sequence (21 s.h.)
        - a) Speech and speech pathologies (9 s.h.)  
Minimum of nine semester hours in courses which deal with nature and development of speech processes and/or with the nature, development, etiology, and treatment of speech pathologies
        - b) Language and Language Pathologies (s.h.)  
Minimum of nine semester hours in courses which deal with the nature and development of language processes and /or language pathologies
        - c) The remaining three semester hours may be taken in either area.
      - 3) Audiology sequence (6 s.h.)
        - a) One auditory disorders course (3 s.h.) and one aural habilitation
      - 4) Non-major/minor sequency (6 s.h.)  
The student must elect six course hours (3 s.h.) of courses outside the areas of speech-language pathology and audiology. Specific courses and areas must be approved by the advisor, and may include such areas as speech/hearing sciences, experimental phonetics, psychology, education, linguistics, and physics, among others. At least one of these courses must be at the 500-600 level.
    - b. Audiology specialization (36 s.h. 27 of which must be at the 500-600 levels)
      - 1) Required courses (3s.h.)
        - a) SPPA 1220.513 Introduction to Research in Speech Pathology and Audiology (1)



- b) SPPA 1220.645 Advanced Clinical Practice (2)  
Taken one s.h. every semester in which any practicum assignment is made until all clinical clock hours are completed. Only two semester hours apply toward the degree.
- 2) Audiology sequence (21 s.h.)
  - a) Auditory disorders (9 s.h.)  
Minimum of nine semester hours in courses which deal with aural habilitation/rehabilitation
  - c) Conservation (3 s.h.)
  - d) Instrumentation (3 s.h.)
- 3) Speech/Language Sequence (6 s.h.)
  - a) One course (3 s.h.) which deals with the nature, development, etiology, diagnosis and treatment of language disorders.
  - b) One course (3 s.h.) which deals with the nature, development, etiology, diagnosis and treatment of speech disorders.
- 4) Non-major/minor sequence (3 s.h.)  
The student must elect six semester hours from courses outside the areas of speech pathology and audiology. Specific courses and areas must be approved by the advisor, and may include such areas as speech/hearing sciences, experimental phonetics, psychology, education, physics, and geography among others. At least one of these courses must be at the 500-600 level.
- 5. Advancement to degree candidacy examination: Students will schedule an examination which will be written and will be taken after successful completion of 9 to 15 semester hours of graduate study. The examination will consist of three essay questions in the student's major area of emphasis, and one essay question in the student's minor area of emphasis within the department.
- 6. Students must demonstrate acceptable writing skills in all clinical and academic work. Students showing weakness in this area may be advised to take 1220.311 (Technical Writing in SPPA) in addition to their degree work.

## **M.ED. IN ART EDUCATION**

The master of education degree program in art education is structured to provide insights into the creative process and its educational, therapeutic and historical implications. It also aims to increase understanding, sensitivity and skill in the graphic and plastic arts.

### **Requirements**

- 2. Undergraduate requirements in education and art
  - a. Certification as a public school art teacher  
OR
  - b. Courses in both art and education areas as follows (32 s.h.):
    - 1) In Art (27 s.h.)
      - a) Fundamentals of Design (two-and three-dimensional) (6)
      - b) Ceramics and Sculpture (6)
      - c) Drawing, Painting and Graphic Processes (some credit required in each area) (6)
      - d) Art History (6)
    - 2) Education (5 s.h.)

- 1) Educational Psychology or Human Growth and Development (3)
  - b) Methods of Teaching Art (2)
2. Course requirements for the degree (may be met by completing either one of the following two plans of study):
- a. Plan A: Master of education with thesis (minimum 30 s.h.)
    - 1) Required courses (15 s.h.)
      - a) EDUC 0801.501 Educational Ideas in Historical Perspective (3)
      - b) PSYC 2001.511 Developmental Psychology (3)
      - c) ART 0831.595 Research in Art and Art Education (3)
      - d) ART 0831.697 Seminar in Art Education (3)
      - e) ART 1001.798 Master of Education Thesis (3) OR  
ART 1001.797 Graduate Project in Art (3)
    - 2) The thesis requirement may be met in one of two ways:
      - a) by writing a thesis dealing with a selected problem in art and art education, (3 s.h.) OR
      - 0025b) by undertaking a creative project. The advisor must approve the project proposal in writing. The student will exhibit the completed project at a suitable location and accompany it with written material defining its scope and philosophic content. (3 s.h.)
    - 3) Elective courses (15 s.h.)
      - a) Courses numbered 500 to 699 should ordinarily be chosen, but a maximum of nine semester hours in courses numbered 300 to 499 may be taken with approval of the student's advisor.
      - b) Six semester hours may be taken in departments other than art and art education.
  - b. Plan B: Master of education without thesis (minimum 33 s.h.)
    - 1) Required Courses (12 s.h.)
      - a) EDUC 0801.501 Educational Ideas in Historical Perspective (3)
      - b) PSYC 2001.511 Developmental Psychology (3)
      - c) ART 0831.595 Research in Art and Art Education (3)
      - d) ART 0831.697 Seminar in Art Education (3)
    - 2) Elective courses (21 s.h.)
      - a) Courses numbered 500 to 699 should ordinarily be chosen, but a maximum of nine semester hours of work in graduate level courses numbered 300 to 499 may be taken with the signed approval of the student's advisor.
      - b) Six semester hours may be taken in departments other than art and art education.

## **M.ED. IN EARLY CHILDHOOD EDUCATION**

The master of education degree program in early childhood education is structured to help teachers and others increase their competence in working in education programs for children, from birth through eight years of age. It is designed to prepare teachers, directors, and supervisors for various education for programs young children such as day care centers, public and private nursery schools, kindergartens, and primary school.

### **Requirements**

1. Undergraduate requirements in education
  - a. Certification as an early childhood education public school teacher  
OR
  - b. Certification as an elementary public school teacher plus six semester hours in early childhood education at the undergraduate level  
OR

- c. Courses in the following areas (total: 15 s.h.):
  - 1) General Psychology, Educational Psychology, or Psychology of Learning (3)
  - 2) Child Psychology, Child Growth and Development, Human Growth and Development, or Personality (3)
  - 3) Curriculum and Methods in Early Childhood Education (6 s.h.)
  - 4) Three hours chosen from the following areas:
    - a) History of Education
    - b) Foundations of Education
    - c) Philosophy of Education
    - d) Principles of Education
    - e) Sociology of Education

NOTE: These courses cannot be used to meet part of the formal elective requirements for the degree as defined below.

2. Course requirements for the degree may be met by completing either one of the following two plans of study:

- a. Plan A.: Master of education with thesis (minimum 30 s.h.)
  - 1) Required courses (12 s.h.)
    - a) EDUC 0801.501 Educational Ideas in Historical Perspective (3)
    - b) EDUC 0801.691 Introduction to Research in Education (3)
    - c) ECED 0823.798 Master's Thesis in Early Childhood Education (3)
    - d) ECED 0823.509 Growth and Development of Young Children (3)

OR

PSYC 2001.511 Developmental Psychology (3)
  - 2) Elective Courses (18 s.h.)
    - a) Twelve semester hours must be earned in departments other than education, except with approval of the program coordinator.
    - b) Selection of courses should be made with the advice and approval of the program coordinator. Each program of study is designed to meet the needs and interests of the individual student.
    - c) At least nine semester hours must be selected from courses numbered 500 to 699.
- b. Plan B: Master of education without thesis (minimum 33 s.h.)
  - 1) Required Courses (12 s.h.)
    - 1) EDUC 0801.501 Educational Ideas in Historical Perspective (3)
    - b) ECED 0823.573 Seminar in Early Childhood Education (3)
    - c) EDUC 0801.691 Introduction to Research in Education (3)
    - d) ECED 0823.509 Growth and Development of Young Children (3)

OR

PSYC 2001.511 Developmental Psychology (3)
  - 2) Elective courses (21 s.h.)
    - a) Twelve semester hours must be earned in departments other than education, except with the approval of the program coordinator.
    - b) Selection of courses should be made with the advice and approval of the program coordinator. Each program of study is designed to meet the needs and interests of the individual student
    - c) At least 12 semester hours must be selected from courses numbered 500 to 699.

## M.ED IN ELEMENTARY EDUCATION

A PROGRAM MAY BE DEVELOPED WHICH INCLUDES ONE OF THE FOLLOWING EMPHASES: CURRICULUM, RESOURCE TEACHING, READING, EDUCATIONAL LEADERSHIP, LEARNING DIFFICULTIES, OR THE GIFTED STUDENT.

In order to enable the in-service teacher to continue progress toward the achievement of academic and professional goals, the master of education degree program in elementary education is designed to (1) assist the student in assessing his/her level of competency as a teacher and to build upon his or her educational and professional experience; (2) provide avenues through which the individual may continue to grow in understanding, involvement in, and appreciation of the emerging society; (3) help the student to extend teaching competencies to new levels of development; (4) encourage a spirit of inquiry and teaching research skills useful in continuing study; (5) help the student acquire a deepening functional understanding of human growth and development; and (6) guide the student toward understanding his/her role as agent of changes within the educational enterprise.

### Requirements

1. Prerequisites
  - a. Certification as an elementary public school teacher  
OR
  - b. Courses in the following areas (total: 12 s.h.)
    - 1) Educational Psychology or Human Growth and Development (3)
    - 2) Organization and Curriculum of the Elementary School (6)
    - 3) Three semester hours chosen from the following areas:
      - a) History of Education
      - b) Foundations of Education
      - c) Philosophy of Education
      - d) Sociology of Education
2. Course requirements for the degree may be met by completing either one of the following two plans of study:
  - a. Plan A: Master of education with thesis (minimum 30 s.h.)
    - 1) Required Courses (12 s.h.)
      - a) EDUC 0801.501 Educational Ideas in Historical Perspective (3)
      - b) EDUC 0801.691 Introduction to Research in Education (3)
      - c) EDUC 0802.798 Master's Thesis in Elementary Education (3)
      - d) PSYC 2001.511 Developmental Psychology (3)
    - 2) Elective Courses (18 s.h.)
      - a) After admission and prior to his/her first registration, the student must plan a program of study with his/her advisor. The program of study is designed to meet the needs and interest of the individual student. It may be changed only with consent of the advisor.
      - b) At least nine semester hours must be selected from courses numbered 500 to 699.
  - b. Plan B: Master of education without thesis (minimum 33 s.h.)
    - 1) Required Courses (12 s.h.)
      - a) EDUC 0801.501 Educational Ideas in Historical Perspective (3)
      - b) EDUC 0801.691 Introduction to Research in Education (3)
      - c) EDUC 0802.675 Seminar in Elementary Education (3)
      - d) PSYC 2001.511 Developmental Psychology (3)

2) Elective Courses (21 s.h.)

- a) After admission and prior to his/her first registration, the student must plan a program of study with his/her advisor. This program of study is designed to meet the needs and interests of the individual student. It may be changed only with the consent of the advisor.
- b) At least twelve semester hours must be selected from courses numbered 500 to 699.

## **M.ED. IN MUSIC EDUCATION**

The master of education in music education program provides opportunities for students to: (1) develop individual talents and interests within the field of music education; (2) become aware of implications of trends in the field; (3) increase insights into such areas as music history/literature, theory/composition, and applied music, as well as music education; and (4) conceptualize about music and music education through lectures, seminars, individual research projects, and private instruction.

### **Requirements**

1. Prerequisites

- a. Certification as a public school music teacher

OR

49 semester hours in undergraduate music courses.

- b. Minimum grade point average of 3.0 in music courses.

2. Interview with the graduate coordinator.

3. Course requirements for the degree may be met by completing one of two plans of study:

- a. Plan A: Master of education in music education with thesis (minimum 30 s.h.), 21 of which must be at the 500-600 levels)

1) Required courses (12 s.h.)

"T" indicates course offered at Towson State University

"M" indicates course offered at Morgan State University

(consult Morgan State University Graduate Bulletin for course numbers)

- a) EDUC 0801.501 Educational Ideas in Historical Perspective (3)

- b) T PSYC 2001.511 Developmental Psychology (3)

- c) TM MUSC 1005.595 Research Methods in Music and Music Education (3)

- d) TM MUSC 1005.501 Seminar in Current Trends in Music and Music Education (3)

2) Required course (3) (select one)

- a) T MUSC 1005.562 Seminar in Choral Music (3)

- b) M MUSC Seminar in Instrumental Music (3)

3) T MUSC 1005.797 Graduate Project in Music (3) or MUSC 1005.798 Thesis (3)

This requirement may be met in one of the following ways:

- a) T MUSC 1005.697 Thesis (3)

- b) Original musical composition of major proportions and a paper concerning salient aspects of the composition level (MUSC 1005.797)

- c) Recital (MUSC 1005.797)

4) Elective courses (12 s.h.) selected from three areas  
Area 1 (3-6 s.h.)



- a) T MUSC 1005.401 Music Prior to 1600 (3)
  - b) T MUSC 1005.402 Music of the Baroque Period (3)
  - c) T MUSC 1005.403 Music of the Classical Period (3)
  - d) T MUSC 1005.404 Music of the Romantic Period (3)
  - e) T MUSC 1005.405 Contemporary Music (3)
  - f) T MUSC 1005.406 Survey of Solo Voice Literature (3)
  - g) T MUSC 1005.409 History and Literature of Guitar, Lute and Vihuela (3)
  - h) T MUSC 1005.410 Survey of Organ Literature (3)
  - i) T MUSC 1005.411 Survey of Opera (3)
  - j) T MUSC 1005.413 Symphonic Literature (3)
  - k) T MUSC 1005.415 The Concerto (3)
  - l) T MUSC 1005.417 Piano Literature (3)
  - m) T MUSC 1005.421 American Music (3)
  - n) T MUSC 1005.471 Special Topics in Music Literature (3)
  - o) M MUSC Advanced Choral Literature (3)
  - p) M MUSC Evolution of Afro-American Music (3)
  - q) M MUSC Seminar in Non-Western Music (3)
  - Area II (3-6 s.h.)
  - a) T MUSC 1005.407 Tonal Counterpoint (3)
  - b) T MUSC 1005.408 Modal Counterpoint (3)
  - c) TM MUSC 1005.435 Form and Analysis (3)
  - d) TM MUSC 1005.431 Advanced Choral and Instrumental Arranging (3)
  - e) T MUSC 1005.531 Advanced Theory (3)
  - f) T MUSC 1005.539 Music Composition (3)
  - g) T MUSC 1005.427 Jazz Arranging (3)
  - h) M MUSC Advanced Orchestration (3)
  - i) M MUSC Electronic Music (3)
  - Area III (3-6 s.h.)
  - a) T MUSC 0832.417 Choral Workshop in Elementary and Secondary School Music (2)
  - b) T MUSC 0832.419 Workshop: Aspects of String Teaching (2-6)
  - c) T MUSC 1005.420 Workshop in Music Instrument Repair (1)
  - d) TM MUSC 0832.408 Organization and Administration of Music Education (3)
  - e) TM MUSC 1005.471 through MUSC 1005.488 Private Instruction: Piano, Instrumental, Voice, Composition (1-3)
  - f) TM MUSC 1005.571 through MUSC 1004.588 Private Instruction: Piano, Instrumental, Voice, Composition (1-3)
  - g) T MUSC 1005.533 Advanced Woodwinds (3)
  - h) T MUSC 1005.429 Jazz Improvisation (3)
  - i) M MUSC Opera Workshop (3)
  - j) M MUSC Musical Theatre (3)
  - k) M MUSC Vocal Piano Pedagogy (3)
  - l) M MUSC Piano Pedagogy (3)
  - m) M MUSC Advanced Strings (3)
  - n) M MUSC Advanced Brass (3)
  - o) M MUSC The Art of Accompanying (3)
- b. Plan B: Master of education in music education without thesis (minimum 33 semester hours and a research paper in one of the seminar courses. 24 semester hours must be at the 500-600 level.

- 1) Required courses (15 s.h.)  
Same as above, but does not require MUSC 1005.699 or 1005.697.
- 2) Elective courses (1-8 s.h.)  
Area I as Above (3-9 s.h.)  
Area II as Above (3-9 s.h.)  
Area III as Above (3-9 s.h.)

## M.ED IN READING

The master of education degree program in reading is offered in cooperation with Morgan State University. The major objective of the program is to offer experiences which will improve the teaching of reading at all levels. The program is designed to assist the student to: (1) gain a better understanding of the learner and the learning process; (2) conduct an intensive diagnostic analysis of needs relevant to reading; (3) prescribe and/or conduct a program to overcome the reading weaknesses noted in the evaluation; (4) become a reading resource teacher; (5) fulfill a leadership role which will involve such activities as conducting in-service workshops and supervising various aspects of the reading program; (6) initiate and conduct research studies in reading and relevant areas.

### Requirements

1. Course requirements (minimum 33 s.h.)
  - a. Required reading courses (12 s.h.)  
 "T" indicates courses offered at Towson State University  
 "M" indicates courses offered at Morgan State University
    - 1) T EDUC 0801.523 Methods and Materials in Teaching Reading in Elementary School (3)
    - 2) T EDUC 0801.521 Reading Disabilities (3)
    - 3) T EDUC 0801.625 Clinic Practicum in Reading (3)
    - 4) T EDUC 0801.629 Seminar in Reading (3)  
 M EDUC 0801.506 Seminar in Reading (3)
  - b. Additional required courses (12 s.h.)
    - 1) T EDUC 0801.501 Educational Ideas in Historical Perspective (3)
    - 2) T PSYC 2001.511 Developmental Psychology (3)
    - 3) T PSYC 2001.411 Tests and Measurements (3) or  
 T EDUC 0801.514 Educational Tests and Measurements (3)
    - 4) T PSYC 2001.540 Mental Hygiene in Education (3)
  - c. Elective Courses (9 s.h., 6 of which must be at the 500-600 levels)
    - 1) M ENGL 1501.516 Introduction to Linguistics (3)
    - 2) M ENGL 1501.590 Phonetics of American English (3)
    - 3) T PSYC 2001.605 Principles of Guidance (3)
    - 4) T EDUC 0801.417 Children's Literature (3) or T EDUC 0801.418 Literature for the Adolescent (3)
    - 5) M EDUC 0801.501 Supervision and Curriculum in Reading (3)
    - 6) T EDUC 0801.627 Evaluation of Reading Research (3)
    - 7) M EDUC 0802.508 Teaching Reading in the Secondary School (3)
    - 8) T ENGL 1501.430 History of English Language (3)
    - 9) T EDUC 0801.529 Corrective Reading (3)
    - 10) T EDUC 0801.631 Diagnosis and Evaluation of Reading Disabilities (3)
    - 11) T EDUC 0802.521 Diagnosis and Prescription for Learning Difficulties (3)
    - 12) T EDUC 0802.523 Diagnosis and Prescription for Learning Difficulties Advanced (3)

13) T EDUC 0802.513 Psycholinguistics and Reading Instruction (3)

14) T PSYC 2001.407 Psychology of Reading (3).

NOTE: Other elective courses may be substituted with the permission of the program coordinator.

## **M. ED. IN SECONDARY EDUCATION**

The master of education degree program in secondary education offers the student an opportunity for in-depth study in one of three areas. The areas are education, teaching specialization, and social restoration education. The following concentrations are offered within the teaching specialization area: computer science, economic education, English, French or Spanish, geography, health, mathematics, physical education, and reading.

### **Requirements**

#### **1. Prerequisites**

a. Certification as a secondary public school teacher

OR \*

#### **0023b. Courses in the following areas:**

1) Educational Psychology or Human Growth and Development

2) Principles and Methods in Secondary Education

3) Three hours from:

a) History of Education

b) Foundations of Education

c) Philosophy of Education

c. For concentrations in the teaching specialization area:

1) Computer Science

a) Major or minor in mathematics or computer science or the equivalent including at least one year of college level calculus and a course in data structures.

2) Economic Education

a) Major or minor in economics education or the equivalent in related courses.

b) Approval by the graduate advisor in economics education

3) English

Major in English, or a minimum of 24 semester hours of English courses. At least 12 semester hours must be in upper-division English courses.

4) Geography

Major or minor in geography, or the equivalent in related courses and/or professional experience.

5) Health

a) Major in health education or health science, or a minimum of 24 semester hours of course work in health education and related sciences.

6) Mathematics

Major or minor in mathematics, or the equivalent in related courses.

7) French or Spanish

a) Major in French or Spanish or a minimum of 18 semester hours of course work in French or Spanish. At least 12 semester hours must be upper division courses.

8) Physical Education

a) A minimum of 24 semester hours in Physical Education

b) Approval by a screening committee composed of graduate faculty in Physical Education.

2. Course requirements for the degree:

a. Education

Thesis Plan (minimum 30 s.h.)

1) Required courses (15 s.h.)

Twelve semester hours in education:

EDUC 0801.501 Educational Ideas in Historical Perspective (3)

EDUC 0803.641 Curriculum Development in the Secondary School (3)

EDUC 0801.691 Introduction to Research in Education (3)

EDUC 0803.798 Master's Thesis in Secondary Education (3)

Three semester hours in psychology:

PSYC 2001.511 Developmental Psychology (3)

2) Elective courses (15 s.h.). At least six s.h. must be selected from courses numbered 500 to 699. Educational electives will be planned in terms of the needs and goals of the individual student and must be approved by the advisor.

Category A—nine s.h. in education

Category B—six s.h. in departments other than education (except with the approval of the program coordinator)

Non-Thesis Plan (minimum 33 s.h.)

3) Required courses (15 s.h.)

Twelve semester hours in education

EDUC 0801.501 Educational Ideas in Historical Perspective (3)

EDUC 0803.641 Curriculum Development in the Secondary School (3)

EDUC 0801.691 Introduction to Research in Education (3)

EDUC 0803.681 Seminar in Secondary Education (3)

Three semester hours in psychology

PSYC 2001.511 Developmental Psychology (3)

4) Elective courses (18 s.h.) At least nine s.h. must be selected from courses numbered 500 to 699. Educational electives will be planned in terms of the needs and goals of the individual student and must be approved by the advisor.

Category A—nine s.h. in education

Category B—six s.h. in departments other than education (except with the approval of the program coordinator)

Category C—three s.h. from any department, including education

b. Teaching Specialization

Thesis Plan (minimum 33 s.h.)

1) Required courses are identical to those in the education area (thesis plan). Students in the physical education concentration may substitute EDEC 0835.509, Psychology of Motor Learning, for PSYC 2001.511, Developmental Psychology.

2) Elective courses (18 s.h.). Must include a minimum of nine hr. at the 500 to 600 level.

Non-Thesis Plan (minimum 36 s.h.)

3) Required courses are identical to those in the education area (non-Thesis Plan). Students in the physical education concentration may substitute ECED 0835.509, Psychology of Motor Learning, for PSYC 2001.511 Developmental Psychology.

4) Elective Courses (21 s.h.). Must include a minimum of 12 hr. at the 500 to 600 level. At least three s.h. must be in education.

- c. Social Restoration Education  
Non-Thesis only (minimum 36 s.h. 27 of which must be at the 500-600 levels)

1) Required courses (24-27 s.h.)

EDUC 0801.501 Educational Ideas in Historical Perspective \*3)  
EDUC 0801.691 Introduction to Research in Education (3)  
EDUC 0802.521 Diagnosis and Prescription for Learning Difficulties (3)  
EDUC 0803.647 The Teaching Process: Secondary (3)  
EDUC 0803.681 Seminar in Secondary Education 93)  
PSYC 2001.540 Mental Hygiene in Education (3)  
EDUC 0803.641 Curriculum Development in the Secondary School (3)  
EDUC 0801.689 Internship in Education (3-6 s.h. depending upon teaching experience). The internship may be waived and other credits substituted if the student has two years of successful teaching experience in an institution of social restoration.

2) Elective courses (12 s.h.)

One course from:

EDUC 0801.529 Corrective Reading (3)  
EDUC 0803.460 Teaching Reading In Secondary School (3)  
EDUC 0803.461 Teaching Reading in Secondary School Content Areas (3)

Another graduate reading course may be approved to substitute for one of the above.

One course from:

SOCI 2208.355 Juvenile Delinquency (3)  
SOCI 2208.353 Criminology (3)  
SOCI 2208.370 Topics in Sociology: Corrections (3)

One course from:

PSYC 2001.425 Introduction to the Helping Relationship (3)  
PSYC 2001.421 Application of Behavioral Principles to Family and Classroom (3)  
PSYC 2001.570 Referral Sources for the School Age Child (3)  
PSYC 2001.404 Adolescent Psychology (3)





## **SPECIALIST CERTIFICATES**

The post-baccalaureate student in early childhood education, elementary education or secondary education may select a 15 s.h. component of the program which culminates in the awarding of a specialist certificate in one of the following areas:

### **Early Childhood Education—**

Children With Special Needs

### **Elementary Education**

Administration and Supervision of Elementary and Middle Schools

Curriculum Development

Educating the Gifted

The Exceptional Child in the Elementary School

Reading

Administration and Supervision of Elementary and Middle Schools

### **Secondary Education**

Adult Education

The Community College

The Exceptional Adolescent in the Secondary School

Teaching the Gifted in the Secondary School

Educational Evaluation

Secondary School Reading

Secondary Supervision/Administration

Secondary Teaching Strategies and Classroom Management

Teaching in the Middle School

The student desiring to work toward a specialist certificate must enroll in the appropriate graduate program and declare his/her intent to complete this component of the program by completing a "specialist certificate enrollment form." Information regarding the specialist certificate component may be obtained by calling or writing to the graduate office (301-321-2500).

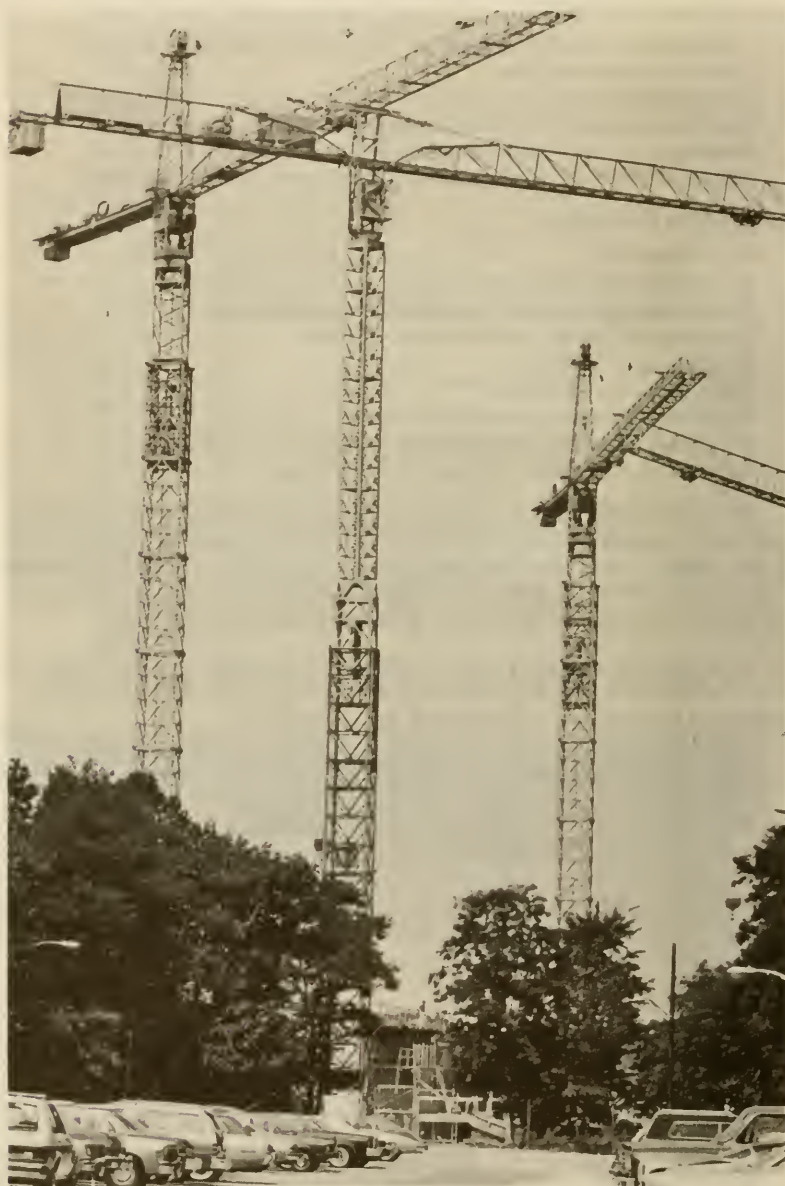
## **COOPERATIVE M.ED. PROGRAMS WITH AN EMPHASIS IN JEWISH STUDIES**

Towson State University, in cooperation with the Baltimore Hebrew College, offers a Jewish studies specialization within the early childhood education and elementary education M.Ed. programs. The student takes 12 semester hours of required courses at the Baltimore Hebrew College and 24 semester hours in the appropriate departmental program at Towson State University. Further information may be obtained by calling the graduate office at Towson State University (301-321-2500) or the graduate office at the Baltimore Hebrew College (301-466-7900 x312).

## COURSE DESCRIPTIONS

Descriptions of 500-level and 600-level courses as well as titles for 300-level and 400-level courses that carry graduate credit are listed in this section. Descriptions for 300-level and 400-level courses may be found in the 1982 Towson State University Catalog. Consult the course schedules to determine the courses offered in a particular session.

Two-semester courses, the numbers of which are separated by a hyphen, are to be taken in sequence.



# ART

Chairperson: James W. Flood

Graduate Departmental Coordinator, Art Education Program: Stanley Pollack  
ART COURSES (1001 Art and 0831 Art Education)

## Upper Division—Undergraduate and Graduate

- 1001.314 THE ART OF ENAMELING ON METAL (3)
- 1001.318 JEWELRY (3)
- 1001.319 METALSMITHING (3)
- 1001.320 DESIGN FOR VISUAL COMMUNICATION II (3)
- 1001.321 FIBER CONSTRUCTION (3)
- 1001.323 PICASSO TO THE PRESENT (3)
- 1001.324 HENRY MOORE TO THE PRESENT (3)
- 1001.325 FRANK LLOYD WRIGHT TO THE PRESENT (3)
- 1001.326 FABRIC DESIGN: DYEING (3)
- 1001.327 FABRIC DESIGN: PRINTING (3)
- 1001.328 WEAVING I (3)
- 1001.334 PHOTOGRAPHY II (3)
- 1001.335 COLOR PHOTOGRAPHY I (3)
- 1001.339 METAL SCULPTURE I (3)
- 1001.340 SCULPTURE: MODELING STUDIO II (3)
- 1001.342 SCULPTURE: CARVING STUDIO II (3)
- 1001.343 GREEK AND ROMAN ART (3)
- 1001.344 BYZANTINE TO GOTHIC ART (3)
- 1001.345 ITALIAN RENAISSANCE ART: 15th-16th CENTURIES (3)
- 1001.346 THE BAROQUE AND 18th CENTURY (3)
- 1001.373 ILLUSTRATION (3)
- 1001.405 ART PRINCIPLES AND CRITICISM (3)
- 1001.413 ENAMELING II (3)
- 1001.414 ADVANCED STUDIO (2-3, 2-3, 2-3)
- .415
- .416
- 1001.418 JEWELRY II (3)
- 1001.428 WEAVING II (3)
- 1001.431 ADVANCED CERAMICS (3)
- 1001.432 CERAMIC RAW MATERIALS (3)
- 1001.433 ADVANCED PAINTING: OILS (3)
- 1001.434 ADVANCED PAINTING: WATERCOLOR (3)
- 1001.439 METAL SCULPTURE II (3)
- 1001.440 SCULPTURE: MODELING STUDIO III (3)
- 1001.442 SCULPTURE: CARVING STUDIO III (3)
- 1001.445 RELIEF PROCESS II (3)
- 1002.447 SCREEN PROCESS I (3)
- 1001.449 INTAGLIO PROCESS I (3)
- 1001.450 INTAGLIO PROCESS II (3)
- 1001.451 LITHOGRAPHIC PROCESS I (3)
- 1001.453 LITHOGRAPHIC PROCESS II (3)
- 1001.461 INTRODUCTION TO ART THERAPY I (3)
- 1001.462 INTRODUCTION TO ART THERAPY II (3)
- 1001.485 SEMINAR IN ART HISTORY (3)
- 1001.494 TRAVEL & STUDY ABROAD (3-6)

## **ART EDUCATION COURSES (0831)**

### **0831.471 ADVANCED ART EDUCATION (3)**

#### **Graduate Division**

**1001.511 DRAWING (3)** Advanced problems in expressive draftsmanent ship. Prerequisite: 1001.211 or consent of instructor.

**1001.514-515-516 GRADUATE STUDIO (2-3, 2-3, 2-3)** Independent work for graduate students in field of special interest. Prerequisite: all courses in field completed, or written consent of instructor.

**1001.529 OIL PAINTING (3)** Current trends and styles; studio work, museum visits, lectures. Prerequisite: 1001.329 or equivalent.

**1001.530 WATERCOLOR (3)** Trends and outstanding painters and styles. Studio work, museum visits, lectures. Prerequisite: 1001.330 or consent of instructor.

**1001.531 CERAMICS (3)** Advanced work in ceramic design and techniques of glazes, clay bodies, firing. Prerequisite 1001.331 or consent of instructor.

**1001.540 GRADUATE SCULPTURE I (3)** Studio problems in selected sculptural areas. Prerequisites: 1001.340 or 1001.241 or 1001.339 or 1001.342 or any 400-level course, or consent of instructor.

**1001.541 GRADUATE SCULPTURE II (3)** Studio problems in selected sculptural areas. Prerequisites: 1001.540 or consent of instructor.

**1001.551 GRAPHICS: INTAGLIO, RELIEF (3)** Studio work of artists with a basic knowledge of intaglio and/or relief processes. Aspects of mixed media explored. Prerequisite 1001.349 or 1001.449 or equivalent.

**1001.553 GRAPHICS: LITHOGRAPHY, SERIGRAPHY (3)** Studio work for artists with knowledge of lithography and/or serigraphy. Prerequisite: 1001.347 or 1001.451 or equivalent.

**1001.797 GRADUATE PROJECT IN ART (3)** Exhibition of project plus a paper defining the project's scope and philosophy. Prerequisite: consent of department chairperson. **1001.798 THESIS (3)** Original investigation in art, art education, art history or other approved area. Prerequisite 1001.697.

#### **1001.799 THESIS CONTINUUM (1)**

## **ART EDUCATION COURSES (0831)**

**0831.595 RESEARCH IN ART AND ART EDUCATION (3)** Methods of research applicable to art and art education. Preparation of research outline in area of choice. Prerequisite: consent of instructor.

**0831.697 SEMINAR IN ART EDUCATION (3)** Investigation of problems and theories in art education and related fields. Prerequisites: 0831.595 advancement to degree candidacy and consent of instructor.

# BIOLOGICAL SCIENCES

Chairperson: Caryl Lewis

Graduate Departmental Coordinator: Biology Program: Donald C. Forester

## BIOLOGY COURSES (0401)

### UPPER DIVISION—UNDERGRADUATE AND GRADUATE

- \*0401.301 FIELD NATURAL SCIENCE (4)
- \*0401.303 LIFE SCIENCES FOR THE ELEMENTARY TEACHER (3)
- 0401.305 ELECTRON MICROSCOPY (4)
- 0401.310 ENVIRONMENTAL CONSERVATION (4)
- +0401.315 MEDICAL MICROBIOLOGY (4)
- +0401.318 MICROBIOLOGY
- 0401.322 MICROTECHNIQUE (4)
- 0401.331 FIELD AND SYSTEMATIC BOTANY (4)
- 0401.341 PHYCOLOGY (4)
- 0401.345 MYCOLOGY (4)
- 0401.351 FIELD AND SYSTEMATIC VERTEBRATE ZOOLOGY (4)
- 0401.353 INVERTEBRATE ZOOLOGY (4)
- 0401.360 HISTOLOGY (3)
- 0401.367 GENERAL ENDOCRINOLOGY (3)
- 0401.368 EXPERIMENTAL ENDOCRINOLOGY (2)
- 0401.371 ANIMAL BEHAVIOR (4)
- \*0401.381 BIOLOGICAL LITERATURE (2)
- \*0401.383 HISTORY OF BIOLOGICAL CONCEPTS (3)
- \*0401.385 SELECTED GENERAL PRINCIPLES IN BIOLOGY (3)
- \*0401.387 BIOLOGY IN SOCIETY (3)
- \*0401.395 COURSE RESEARCH
- 0401.401 GENETICS (4)
- 0401.402 GENERAL ECOLOGY (4)
- 0401.403 ADVANCED GENETICS (3)
- 0401.404 ECOLOGICAL TECHNIQUES (3)
- 0401.406 LIMNOLOGY(4)
- 0401.408 CELL BIOLOGY (4)
- 0401.411 WILDLIFE BIOLOGY (4)
- 0401.413 EVOLUTION (3)
- 0401.417 MICROBIAL ECOLOGY (4)
- 0401.421 IMMUNOLOGY (3)
- 0401.429 BIOANALYSIS (3)
- 0401.431 HORTICULTURE (4)
- 0401.432 VASCULAR PLANT TAXONOMY (4)
- 0401.433 PLANT SPECIATION (3)
- 0401.435 PLANT ECOLOGY (4)
- 0401.436 PLANT PHYSIOLOGY (4)
- 0401.439 PLANT ANATOMY (4)
- 0401.441 PATHOLOGY (4)
- 0401.456 ORNITHOLOGY (4)
- 0401.458 MAMMALOLOGY (4)
- 0401.461 ENTOMOLOGY (4)
- 0401.463 ANIMAL EMBRYOLOGY (4)
- 0401.465 MAMMALIAN PHYSIOLOGY (4)
- 0401.467 HERPETOLOGY (4)
- 0401.469 COMPARATIVE ANIMAL PHYSIOLOGY (4)
- 0401.481 DIRECTED READINGS IN BIOLOGY (1-3)



0401.486 SEMINAR: SPECIAL TOPICS IN BIOLOGY (1-2)  
0401.491 INDEPENDENT RESEARCH IN BIOLOGY (2-3)  
0401.494 TRAVEL STUDY (1-3)  
0401.495 COURSE RESEARCH (1)

\* Not applicable to M.S. in Biology

+ Only 4 semester hours from these courses may be included in the M.S. in Biology

### Graduate Division

#### 0401.501 CURRENT TOPICS IN BIOLOGY (3).

**0401.505 PROBLEMS IN BIOLOGY (1-3)** Laboratory or literature research on a particular problem of interest to the student that does not pertain to his thesis. Regular conferences with the instructor are required. A maximum of three credits allowable for MS degree in Biology.

**0401.507 PHYSIOLOGICAL ANIMAL ECOLOGY (4)** Physiological responses of animals to varying ecological conditions. Prerequisite: 0401.304, 0401.465.

**0401.509 AQUATIC BIOLOGY (4)** Local freshwater and brackish water plants and animals. Representative habitats considered comparatively, using methods of collecting and identifying species of the fauna and flora. Prerequisite: 0401.331, 0401.351, 0401.406, 0401.353 or consent of the instructor.

**0401.510 POPULATION AND COMMUNITY BIOLOGY (3)** Processes in biological populations, including population growth, compensation, and predation, analyzed by the use of conceptual systems models and simple mathematical models. Prerequisite: 0401.401, 0401.402, 0401.413, or equivalents.

**0401.511 BIOCHEMICAL GENETICS (3)** Biochemical basis of genetic phenomena, including duplication, expression, organization, and recombination of DNA. Prerequisites: 0401.401 and 1905.350 or consent of instructor.

**0401.515 PATHOGENIC MICROBIOLOGY (3)** Pathogenic bacteria and viruses, including virulence of causative agents, epidemiology, pathogenesis, diagnosis, prevention and treatment of representative bacterial and viral diseases. Prerequisites: 0401.315 or 0401.318; 1905.330 or 1905.332.

**0401.521 CELL REGULATION (3)** Regulation of cellular activities. Topics covered include regulation of enzyme synthesis and enzyme activity; membrane bound enzymes and carriers; activities regulated by cell surface receptors; experimental techniques used to obtain current knowledge in these areas. Prerequisites: 0401.408; 1905.350 or equivalent.

**0401.532 PLANT BIOSYSTEMATICS (4)** Techniques employed in the analysis of vascular plant life histories and species variation. Emphasis on local flora. Prerequisites: 0401.331; 0401.432 or consent of instructor. Prerequisite: 0401.331; 0401.432 recommended.

**0401.533 PLANT MORPHOGENESIS (4)** Morphological growth and development of plants in response to natural and artificial stimuli at the cellular, tissue, and organ level. Prerequisite: 0401.331 or 0401.439.

**0401.535 PHYSIOLOGICAL PLANT ECOLOGY (4)** Physiological interactions between plants and environments at the organism level. Physical and biological factors affecting the physiology and distribution of plants. Prerequisites: 0401.402; 0401.436 recommended, or consent of instructor.

**0401.541 PRINCIPLES OF PHYSICAL BIOCHEMISTRY (3)** Chemical thermodynamics to bioenergetics; the application of chemical kinetics to enzyme kinetics and other time-dependent biochemical phenomena; transport phenomena with emphasis upon membrane transport, centrifugation, and an introduction to X-ray crystallography. Prerequisites: 1905.350 or 1905.353 and 1701.273 or equivalent; 1701.274 recommended.

**0401.551 OSMOREGULATION (3)** Mechanisms of salt and water regulations in animals. Emphasis on structural and functional modifications in representative species which permit survival in osmotically stressful environments. Prerequisites: 1905.102 and 0401.109 or the equivalents.

**0401.553 BIOLOGY OF FRESHWATER INVERTEBRATES (4)** Invertebrates including classification, adaptive strategies and various ecological parameters influencing distribution of local fauna in freshwaters. Parasitic forms are excluded. Prerequisite: 0401.353 and 0401.461 or consent of instructor.

**0401.561 INSECT ECOLOGY (4)** Insect communities and populations. Conditions of the environment that favor abundance of insects in various habitats. Local field work required. Prerequisite: 0401.461; 0401.353.

**0401.581 RECENT ADVANCES IN BIOLOGY (4)** Factual and technological advances in the five following areas: botany, zoology, ecology, genetics and evolution, cellular and molecular biology. Prerequisite: 9 graduate credits in biology.

**0401.601 NON-THESIS LABORATORY RESEARCH (3)** Research project. Credit granted after paper defended. Prerequisite: advancement to degree candidacy.

**0401.603 NON-THESIS LIBRARY RESEARCH (3)** Paper based upon an extensive literature survey. Credit granted after paper defended. Prerequisite: advancement to degree candidacy.

**0401.697 GRADUATE SEMINAR (1)** Student reports and discussion dealing with biological research. An outline of the seminar and a bibliography are required. A maximum of one credit is allowable for the MS degree in biology.

**0401.798 THESIS (6)** An original investigation to be pursued under the direction of one or more faculty members. Credit granted after thesis acceptance.

**0401.799 THESIS CONTINUUM (1)**

# BUSINESS ADMINISTRATION

Chairperson: William R. Brown

## BUSINESS ADMINISTRATION COURSES (0506)

Upper Division—Undergraduate and Graduate

- 0506.325 BUSINESS LAW I (3)
- 0506.331 FINANCIAL MANAGEMENT (3)
- 0506.332 ADVANCED CORPORATE FINANCE (3)
- 0506.341 MARKETING MANAGEMENT (3)
- 0506.361 MANAGEMENT THEORY (3)
- 0506.363 QUANTITATIVE METHODS FOR BUSINESS (3)
- 0506.381 PERSONNEL MANAGEMENT (3)
- 0506.421 INTERNATIONAL TRANSPORTATION (3)
- 0506.435 INTERNATIONAL FINANCE (3)
- 0506.441 MARKETING RESEARCH (3)
- 0506.442 CASES IN MARKETING MANAGEMENT (3)
- 0506.445 INTERNATIONAL MARKETING (3)
- 0506.451 INDUSTRIAL RELATIONS (3)
- 0506.452 GRIEVANCES AND ARBITRATION (3)
- 0506.455 SMALL BUSINESS DEVELOPMENT (3)
- 0506.457 PUBLIC SECTOR COLLECTIVE BARGAINING (3)
- 0506.461 ANALYSIS OF INDUSTRIAL ORGANIZATIONS (3)
- 0506.463 SEMINAR IN LEADERSHIP (3)
- 0506.481 ADVANCED BUSINESS POLICY WORKSHOP (3)

### Graduate Division

**0506.570-79 SPECIAL TOPICS IN BUSINESS (3)** Contemporary business issues as they affect management practice. Content varies with each topic. Prerequisites: Consent of instructor.

**0506.595 INDEPENDENT STUDY IN BUSINESS ADMINISTRATION (3)** Comprehensive paper on specific topic in finance, management, personnel, marketing, or accounting. Prerequisites: 9 graduate semester hours in Business and consent of instructor.

# CHEMISTRY

Chairperson: Alan S. Wingrove

## CHEMISTRY COURSES (1905)

Upper Division—Undergraduate and Graduate

- 1905.341 PHYSICAL CHEMISTRY—THERMODYNAMICS (3)
- 1905.342 PHYSICAL CHEMISTRY—STRUCTURE AND KINETICS (3)
- 1905.343 PHYSICAL CHEMISTRY LABORATORY I (1)
- 1905.344 PHYSICAL CHEMISTRY LABORATORY II (1)
- 1905.350 PRINCIPLES OF BIOCHEMISTRY (5)
- 1905.353 BIOCHEMISTRY (5)
- 1905.361 CHEMICAL AND BACTERIOLOGICAL STUDIES ON WATER POLLUTION (3)

- 1905.363 CHEMISTRY OF DANGEROUS DRUGS (3)
- 1905.365 POLYMER CHEMISTRY (3)
- 1905.367 FORENSIC CHEMISTRY (3)
- 1905.369 ORGANOMETALLIC CHEMISTRY (3)
- 1905.371 SPECTROMETRIC METHODS IN CHEMISTRY (4)
- 1905.383 MODERN CHEMISTRY: PRINCIPLES AND APPLICATIONS I (3)
- 1905.384 MODERN CHEMISTRY: PRINCIPLES AND APPLICATIONS II (3)
- 1905.391- SPECIAL PROBLEMS IN CHEMISTRY (1-3)
- .394
- 1905.401 SEMINAR IN CHEMISTRY (1)
- 1905.411 INSTRUMENTAL METHODS OF ANALYSIS (5)
- 1905.412 ADVANCED ANALYTICAL CHEMISTRY (3)
- 1905.422 INORGANIC CHEMISTRY (4)
- 1905.431 ADVANCED ORGANIC CHEMISTRY LABORATORY (3)
- 1905.432 ADVANCED ORGANIC CHEMISTRY (3)
- 1905.441 ADVANCED PHYSICAL CHEMISTRY (3)
- 1905.452 ADVANCED BIOCHEMISTRY (3)
- 1905.453 ADVANCED BIOCHEMISTRY LABORATORY (2)
- 1905.491- INTRODUCTION TO RESEARCH IN
- .492- CHEMISTRY (1-3)
- .493

## COMMUNICATION SCIENCES AND DISORDERS

Chairperson: Bill L. Wallace

Graduate Department Coordinator: Speech-Language Pathology and Audiology

Program: Charles Lonegan

### SPEECH LANGUAGE PATHOLOGY AND AUDIOLOGY COURSES (1220)

Upper Division—Undergraduate and Graduate

- 1220.300 ANATOMY AND PHYSIOLOGY OF THE AUDITORY AND VOCAL MECHANISMS (3)
- 1220.301 HEARING AND SPEECH SCIENCE (3)
- 1220.302 SPEECH AND LANGUAGE PATHOLOGY I—ARTICULATION (3)
- 1220.304 SPEECH AND LANGUAGE PATHOLOGY II—LANGUAGE (3)
- 1220.305 STUTTERING—ETIOLOGY AND THERAPY (3)
- 1220.306 SPEECH AND LANGUAGE PATHOLOGY III—ORGANIC DISORDERS (3)
- 1220.321 INTRODUCTION TO AUDIOLOGY (3)
- 1220.404 PROFESSIONAL PROGRAM, PROBLEMS AND RELATIONSHIPS (3)
- 1220.431 IDENTIFICATION AUDIOMETRY (3)
- 1220.470- SPECIAL TOPICS SEMINAR IN SPEECH/LANGUAGE
- .479 PATHOLOGY AND AUDIOLOGY (3)
- 1220.486 CLINICAL OBSERVATION AND TECHNIQUES (3)
- 1220.489 CLINICAL COUNSELING IN AUDIOLOGY AND SPEECH PATHOLOGY (3)
- 1220.498 PROCTORING IN SPEECH AND LANGUAGE PATHOLOGY AND AUDIOLOGY (3)



## Graduate Division

### **1220.501 SEMINAR IN LANGUAGE DISORDERS OF CHILDREN (3)**

Various syndromes and their associated language disorders. Prerequisites: 1220.301 and consent of instructor.

**1220.505 NEUROPATHOLOGIES OF SPEECH (3)** Neuroanatomy and neurophysiology relevant to communication impairment resulting from brain injury. Symptomatology, evaluation procedures and therapeutic techniques relevant to the management of aphasia, apraxia, and dysarthria. Prerequisites: 1220.306 and 1220.487 and consent of instructor.

**1220.507 DIAGNOSTIC METHODS IN SPEECH/LANGUAGE PATHOLOGY (3)** Standardized and non-standardized techniques for testing the speech, language and cognitive functioning of children and adults. Prerequisites: 1220.487, 1220.505 and consent of instructor.

**1220.509 NONVOCAL COMMUNICATION FOR THE DISABLED (3)** Development of prelinguistic communication. Role of nonverbal communication behaviors in the acquisition and development of speech and language. The compensatory or augmentative use of various non-speech communication modes with persons whose handicap (disability) prevents effective verbal communication. Prerequisites: 1220.105, professional experience with disabled population and/or consent of instructor.

**1220.511 SEMINAR IN APPLICATION OF LINGUISTICS TO SPEECH PATHOLOGY (3)** Psycholinguistics and generative grammar and its application to diagnosis and management of those with language disorders. Prerequisites: 1220.105 and consent of instructor.

**1220.512 AURAL HABILITATION/REHABILITATION (3)** Theories, objectives and techniques for the teaching of speech reading, speech conservation and auditory training. Prerequisites: 1220.321 and consent of instructor.

**1220.513 RESEARCH DESIGN SEMINAR IN SPEECH/LANGUAGE PATHOLOGY AND AUDIOLOGY (1)** Research methods, techniques and needs in speech, language pathology and audiology. Prerequisites: 1220.487 and consent of instructor.

**1220.515 VOICE DISORDERS: ETIOLOGY, DIAGNOSIS, TREATMENT AND RESEARCH (3)** Etiology, diagnosis and treatment of organic and functional disorders of voice in children and adults. Prerequisites: 1220.306 and consent of instructor.

**1220.517 ARTICULATION DISORDERS: ETIOLOGY, DIAGNOSIS, TREATMENT AND RESEARCH (3)** Diagnostic procedures and treatment programs for articulation disorders in children and adults. Prerequisites: 1220.306 and consent of instructor.

**1220.518 EXPERIMENTAL PHONETICS (3)** Physiological, acoustic and perceptual aspects of production and perception of speech. Prerequisites: 1220.210 and consent of instructor.

**1220.519 CURRENT ISSUES IN STUTTERING SEMINAR (3)** Management procedures for children and adults with disorders of fluency. Prerequisites: 1220.305 and consent of instructor.

**1220.521 SEMINAR IN DIAGNOSIS OF DISORDERS OF THE AUDITORY SYSTEM (3)** History, rationale and procedures of audiological diagnosis. Prerequisites: 1220.321 and consent of instructor.



**1220.531 SEMINAR IN PSYCHOACOUSTIC, INSTRUMENTATION AND CALIBRATION (3)** Psychoacoustic principles and procedures. Laboratory experience with electroacoustic instrumentation and calibrating of such instrumentation. Prerequisite: Consent of instructor.

**1220.543 SEMINAR IN NEUROBIOLOGIC ASPECTS AND ASSESSMENT OF THE AUDITORY SYSTEM (3)** Bioacoustic and neurophysiologic properties of the peripheral and central auditory systems. Prerequisite: Consent of instructor.

**1220.544 AUDIOLOGY SEMINAR—CURRENT TOPICS IN AUDITION (3)** Topics to be determined. Prerequisite: Consent of instructor.

**1220.551 INDUSTRIAL AND ENVIRONMENTAL AUDIOLOGY (3)** Industrial, community, and environmental aspects of noise and its effects upon hearing. Development of hearing conservation programs. Prerequisites: 1220.321 and consent of instructor.

**1220.533 PEDIATRIC AUDIOLOGY (3)** Principles and techniques for identifying and evaluating hearing impaired children. Consideration of multiple handicaps. Prerequisites: 1220.321 and consent of instructor.

**1220.555 HEARING AID SELECTION PROCEDURES (3)** Electroacoustic characteristics of amplifying systems utilized with the hearing impaired. Principles and methods of hearing aid selection and management with infant through geriatric population. Prerequisites: 1220.321 and consent of instructor.

**1220.561 DIALECTS OF ETHNIC GROUPS IN AMERICAN SOCIETY (3)** Cultural variance, socio-linguistic theory, and descriptive linguistic analysis techniques. Investigation of speech patterns of English-dialect speakers in "minority" ethnic groups of U.S. Prerequisites: 1220.210.

**1220.601 SEMINAR IN LANGUAGE AND COGNITION (3)** Strategies and processes by which children learn language. The theory of cognitive development as it relates to language acquisition. Prerequisites: 1220.105 and consent of the instructor.

**1220.602 COMMUNICATION DISORDERS IN MENTAL RETARDATION SEMINAR (3)** Nature, etiology, development, evaluation and habilitation of individuals diagnosed as mentally retarded with emphasis in the associated speech-language and hearing disorders. Prerequisite: Consent of instructor.

**1220.645 ADVANCED CLINICAL PRACTICUM (1)** Supervised clinical experience with communicatively impaired children and adults in on campus or off campus placements. Prerequisites: 1220.487 and consent of department.

**1220.695 GRADUATE RESEARCH PAPER IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (3)** Paper reporting results of original experimental or clinical research related to the field. Prerequisites: Graduate student standing and consent of department.

**1220.696 INDEPENDENT STUDY IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (3)** Investigation in selected area of Speech-Language Pathology and Audiology. Prerequisites: Graduate student standing and consent of department.

**1220.697 DIRECTED READINGS IN SPEECH-LANGUAGE PATHOLOGY AND AUDIOLOGY (3)** Readings in particular topic in Speech-Language Pathology or Audiology. Prerequisites: Graduate student standing and consent of department.

## ECONOMICS

Chairperson: Harvey Paul

### ECONOMICS COURSES (2204)

Upper Division—Undergraduate and Graduate

- 2204.309 INTERMEDIATE PRICE THEORY (3)
- 2204.323 MONEY AND BANKING (3)
- 2204.335 MACROECONOMIC THEORY (3)
- 2204.401 HISTORY OF ECONOMIC THOUGHT (3)
- 2204.485 SEMINAR IN ECONOMIC ISSUES (3)
- 2204.493 WORKSHOP ON ECONOMIC EDUCATION (3)
- 2204.495 INDEPENDENT STUDY (1-3)
- 2204.497 PRACTICUM IN ECONOMICS (3)

### Graduate Division

**2204.590 INDEPENDENT STUDY (1-3)** Individual and supervised study in selected areas of economics. Prerequisite: Permission of instructor.

**2204.593 ECONOMIC EDUCATION RESEARCH AND METHODS (3)** Methodology and research in contemporary economic education in the elementary and secondary schools. A contemporary issues approach to economic instruction is employed. Prerequisites: 2204.301, 2204.309, 2204.323, and 2204.335.

**2204.595 SEMINAR IN ECONOMICS (3)** Research and writing of papers on an economics issue selected by the instructor. Prerequisite: 2204.309, 2204.323 and 2204.335.

**2204.597 INTERNSHIP IN ECONOMICS (3)** Supervised work experience designed to provide an understanding of the economic system and the practical application of economic principles. Prerequisites: Graduate student in Economics or Economic Education, 12 credits completed, and consent of Practicum Coordinator.

## EDUCATION

Dean of Education: James B. Binko

Associate Dean of Education: Frances T. Bond

Chairperson of Early Childhood Education: Marilyn Lewis

Chairperson of Elementary Education: C. Keith Martin

Chairperson of Secondary Education and Foundations of Education: Dr. Alan Patrick

Chairperson of General Education: Royce W. Van Norman

Director of Reading: Joseph P. Gutkoska

Director of Laboratory Experience: James C. Lawlor

## GRADUATE DEPARTMENTAL COORDINATORS

Secondary Education Program: Margaret A. Kiley

Elementary Education Program: Joseph Suhorsky

Reading Program: Joseph P. Gutkoska

Early Childhood Education Program: Theodora Kimsey

## EARLY CHILDHOOD EDUCATION COURSES (0823)

### Upper Division—Undergraduate and Graduate

- 0823.403 THE CURRICULUM IN PRIMARY EDUCATION (3)
- 0823.411 PARENTS AND TEACHERS: PARTNERS IN EARLY CHILDHOOD EDUCATION (3)
- 0823.415 THE DAY CARE CENTER (3)
- 0823.417 EARLY IDENTIFICATION OF LEARNING DISABILITIES (3)
- 0823.421 PROBLEMS IN EARLY CHILDHOOD EDUCATION (3)
- 0823.423 LABORATORY EXPERIENCES IN EARLY CHILDHOOD EDUCATION (3)
- 0823.470-489 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION (1-3)
- 0823.494 TRAVEL AND STUDY—EARLY CHILDHOOD EDUCATION (1-6)

### Graduate Division

#### **0823.509 GROWTH AND DEVELOPMENT OF YOUNG CHILDREN (3)**

Methods of studying behavior; implications for program's and curriculum development.

#### **0823.513 PROGRAMS FOR INFANTS AND CHILDREN UNDER THREE**

(3)Review, research and evaluation of programs for young children. Prerequisites: 0823.509.

#### **0823.515 ADMINISTRATION AND SUPERVISION OF PROGRAMS FOR YOUNG CHILDREN (3)**

Theory and practice of operating programs for young children; staff selection; evaluation; training; curriculum development; financing; and budgeting. Prerequisites: 6 credits ECE.

#### **0823.517 ADVANCED LEARNING DISABILITIES (3)**

Research; theories; etiology; identification and remediation; emphasis on neuropsychology of learning. Prerequisites: 0823.509

#### **0823.519 MEASUREMENT AND EVALUATION OF YOUNG CHILDREN (3)**

Assessment instruments; research; basic statistical concepts; diagnostic and prescriptive testing. Prerequisites: 6 credits ECE; 6 credits Psychology.

#### **0823.521 PREVENTION OF READING FAILURE IN EARLY CHILDHOOD**

(3)Prereading and beginning reading skills in relation to stages of cognitive development and individual differences of children with emphasis on implications for teaching. Prerequisites: three credits in reading.

#### **0823.531 THE GIFTED AND TALENTED YOUNG CHILD (3)**

Theory and research on characteristics, identification programming and curriculum adaptations for young gifted children. Prerequisites: 0823.509.

#### **0823.537 MAINSTREAMING FOR THE CLASSROOM TEACHER (3)**

Legal bases; programs; methods and materials for children with special needs; emphasis on the regular classroom situation. Prerequisites: student teaching or teaching experience and/or consent of instructor.

**0823.553 PERCEPTUAL AND COGNITIVE DEVELOPMENT OF YOUNG CHILDREN (3)** Piaget's theory and related research on stages of intellectual development with emphasis on implications for selecting materials, activities, and teaching strategies in preschool and primary grades. Prerequisites: 2001.511 or 0823.509.

**0823.570-572 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION (1-3)** Studies in selected content areas. Prerequisites vary according to topic area. Prerequisites: Consent of graduate coordinator.

**0823.573 SEMINAR IN EARLY CHILDHOOD EDUCATION (3)** Investigation of topics related to working with young children and parents. Prerequisites: 0801.691 and fifteen credits in graduate level ECE.

**0823.595 INDEPENDENT STUDY IN EDUCATION: EARLY CHILDHOOD (3)** Independent study in selected areas of Early Childhood Education: Prerequisite: Early Childhood Education graduate standing and consent of Early Childhood Education Graduate coordinator.

**0823.596 DIRECTED READINGS IN EARLY CHILDHOOD EDUCATION (3)** Independent readings in selected areas of Early Childhood Education. Prerequisite: Early Childhood Education graduate standing and consent of Early Childhood Education coordinator.

**0823.647 THE TEACHING PROCESS: EARLY CHILDHOOD EDUCATION (3)** Systems for analyzing teaching behavior; models of teaching for achieving cognitive, social, and personal learning objectives; and analysis of classroom application of teaching models. Prerequisites: teaching experience (students enrolling for this class should be teaching).

**0823.670-674 SPECIAL TOPICS IN EARLY CHILDHOOD EDUCATION (3)** Studies and research in selected content areas. Prerequisites: Vary according to topic. Consent of graduate coordinator.

**0823.798 MASTER'S THESIS IN EARLY CHILDHOOD EDUCATION (3)**

**0823.799 THESIS CONTINUUM (1)**

## **ELEMENTARY EDUCATION COURSES (0802)**

### **Upper Division—Undergraduate and Graduate**

0802.411 STAFF DEVELOPMENT AND LEADERSHIP IN THE ELEMENTARY SCHOOL (3)

0802.429 METHODS AND PRINCIPLES OF READING INSTRUCTION—ADVANCED (3)

0802.441 CURRICULUM DEVELOPMENT IN THE ELEMENTARY SCHOOL (3)

0802.457 ENGLISH FOR THE NON-ENGLISH-SPEAKING CHILD (3)

0802.458 PRACTICUM: ENGLISH FOR THE NON-ENGLISH-SPEAKING CHILD (1-4)

0802.470-489 SPECIAL TOPICS IN ELEMENTARY EDUCATION (1-3)

0802.494 TRAVEL AND STUDY: ELEMENTARY EDUCATION (1-6)

495 INDEPENDENT STUDY IN EDUCATION: ELEMENTARY (1-4)

0802.496 DIRECTED READING: ELEMENTARY EDUCATION (1-4)



## Nondepartmental Listings

- 1001.471 ADVANCED ART EDUCATION (3) (See Art Department Listings)
- 0401.303 LIFE SCIENCE IN THE ELEMENTARY SCHOOL (3)  
(See Biology Department Listings)
- 1701.427 READINGS IN MATHEMATICS EDUCATION FOR THE  
ELEMENTARY SCHOOL TEACHER (1-3)  
(See Math Department Listings)
- 1902.303 EARTH-SPACE SCIENCE IN CHILDHOOD EDUCATION (3)  
(See Physics Department Listings)
- 0834.371 TEACHING SCIENCE IN EARLY CHILDHOOD (2)
- 0834.376 TEACHING SCIENCE IN THE ELEMENTARY SCHOOL (3)  
(See Physics Department Listings)
- 0834.470- SEQUENTIAL SCIENCE MODULES FOR THE  
ELEMENTARY SCHOOL TEACHER (1-3)  
(See Physics Department Listing)
- 0834.488 AEROSPACE EDUCATION WORKSHOP (3)  
(See Physics Department Listings)

## Graduate Division

**0834.585 SEMINAR IN ELEMENTARY SCHOOL SCIENCE (3)** Practices and trends in organization, teaching and improving programs in elementary school science. Prerequisite: elementary teaching experience.

**0802.511 READING AND OTHER LANGUAGE ARTS IN THE ELEMENTARY SCHOOL—ADVANCED (3)** Application of theory and research to the teaching of reading and the other language arts. Prerequisites: 0802.321, 0802.323 or 0802.462.

**0802.513 PSYCHOLINGUISTICS AND READING INSTRUCTION (3)** Investigation of psycholinguistic research. Method of applying psycholinguistic diagnosis. Development of instructional strategies based on diagnostic findings utilizing syntactical measures of readability. Prerequisites: One course in reading instruction.

**0802.521 DIAGNOSIS AND PRESCRIPTION FOR LEARNING DIFFICULTIES (3)** Learning difficulties in the elementary and middle school; diagnosing and remediating learning difficulties. Prerequisites: Student teaching and/or classroom teaching experience and 6 credits in psychology.

**0802.523 DIAGNOSIS AND PRESCRIPTION FOR LEARNING DIFFICULTIES—ADVANCED (3)** Diagnostic teaching, team conferencing, identification of learning problems and learning styles, and effects of mainstreaming. Teaching strategies to improve auditory, visual, and verbal skills, cognitive skills related to arithmetic and reading comprehension, and classroom behavior. Prerequisites: 0801.529 OR 0801.521 or permission of the instructor.

**0802.531 EDUCATING THE GIFTED (3)** Identification of gifted student in elementary and middle schools; curricular adaptations and school programs; stimulating creativity and problem solving strategies. Prerequisites: Student teaching or teaching experience or consent of instructor.

**0802.533 READING AND LANGUAGE ARTS FOR GIFTED STUDENTS (3)** Teaching reading and language arts to gifted students, diagnosing levels and needs, evaluating programs, preparing an integrative unit, assessing techniques for teaching high-level comprehension and study skills, and locating



resources. Prerequisite: one course in Children's Literature or Young Adult Literature or Reading and Language Arts, Advanced or Educating the Gifted or permission of instructor.

**0802.537 MAINSTREAMING FOR THE CLASSROOM TEACHER (3)** Legal bases; programs; methods and material for children with special needs; emphasis on the regular classroom situation. Prerequisites: Student teaching or teaching experience and/or consent of instructor.

**0802.540 DISCIPLINE AND MANAGEMENT IN THE ELEMENTARY SCHOOL (3)** Classroom discipline in the elementary school and development of ways and means of implementing appropriate classroom management techniques. Prerequisites: Student teaching, teaching experience, or consent of instructor.

**0802.548 INDIVIDUALIZING LEARNING IN THE ELEMENTARY SCHOOL (3)** Individualizing learning and restructuring of organizational patterns, with emphasis on behavioral objectives, learning centers, listening stations, task folders, and media centers. Prerequisite: certification and teaching experience, or consent of instructor.

**0802.561 HUMANIZING THE CURRICULUM (3)** The philosophy, theories, and techniques in humanistic education; development and use of methods, materials and curricula for humanistic teaching. Prerequisite: student teaching, teaching experience, or consent of the instructor.

**0802.565 THEORY AND PRACTICE OF CURRICULUM DEVELOPMENT IN THE ELEMENTARY SCHOOL (3)** History of curriculum development in the elementary school; basic considerations affecting curriculum development; patterns of organization; objectives; practices and evaluation; problems in curriculum development. Prerequisite: consent of graduate coordinator.

**0803.595 INDEPENDENT STUDY IN EDUCATION: SECONDARY (1-4)** Independent study in selected areas of secondary education. Prerequisites: Graduate standing and consent of Graduate Coordinator.

**0803.596 DIRECTED READING IN SECONDARY EDUCATION (1-4)** Independent reading in selected areas of secondary education. Prerequisites: Graduate standing and consent of graduate coordinator.

**0803.641 CURRICULUM DEVELOPMENT IN THE SECONDARY SCHOOL (3)** Principles and practices; significant historical and contemporary influences; objective, content, and evaluation; trends; teachers as curriculum developers and implementors. Prerequisite: Consent of instructor.

**0803.643 THE ADMINISTRATION OF THE SECONDARY SCHOOL (3)** Principles and practices; administrator's roles and responsibilities; human relations and personnel management of the school unit and curriculum. Prerequisites: Three years teaching experience, teacher certification, and nine graduate credits in education.

**0803.647 THE TEACHING PROCESS: SECONDARY EDUCATION (3)** Theory and research on systems for analyzing teacher behavior; models of teaching for achieving cognitive, social, and personal learning objectives; and guidance and nature of the transescent; community involvement; evaluation. Prerequisite: Teaching experience.

## ADDENDUM

**0802.570-574 SPECIAL TOPICS IN ELEMENTARY EDUCATION (1-3)** Study of a topic in elementary education. Requirements and prerequisites vary with each topic. Prerequisites:

**0802.585 SEMINAR IN ELEMENTARY SCHOOL SOCIAL STUDIES (3)** Trends, content, issues, and materials involved in the teaching of social studies. Students explore one aspect of the subject and present findings.

**0802.595 INDEPENDENT STUDY IN EDUCATION: ELEMENTARY (1-4)** Research problems or study projects relevant to student interest and training. Prerequisite: Consent of Graduate Program Coordinator prior to registration.

**0802.616 THE ADMINISTRATION OF THE ELEMENTARY SCHOOL (3)** Principles of elementary school administration, the administrator's role and responsibilities, human relations and personnel management, public relations, management of the school unit and curriculum. Prerequisites: 3 years' teaching experience, teacher certification and 9 graduate level credits.

**0802.647 THE TEACHING PROCESS: ELEMENTARY EDUCATION (3)** Systems for analyzing teaching behavior, models of teaching for achieving cognitive, social, and personal learning objectives; and analysis of classroom application of teaching models. Prerequisite: Teaching experience. (students enrolling for this class should be teaching).

**0802.670-674 SPECIAL TOPICS IN ELEMENTARY EDUCATION (1-3)** Study of a selected topic in education. Requirements and prerequisites vary according to topic. Prerequisites: Consent of Graduate Coordinator.

**0802.675 SEMINAR IN ELEMENTARY EDUCATION (3)** Scientific investigation of selected aspects of education, with emphasis on classroom application. Prerequisite: 30 hours of graduate work including 0801.691.

**0802.681 SEMINAR IN ELEMENTARY SUPERVISION (3)** Role of the supervisor; supervisory practices and techniques. Prerequisite: 9 graduate credits.

**0802.798 MASTER'S THESIS IN ELEMENTARY EDUCATION (3)**

**0802.799 THESIS CONTINUUM (1)**

## SECONDARY EDUCATION COURSES

### Upper Division—Undergraduate and Graduate

- |              |                                                                      |
|--------------|----------------------------------------------------------------------|
| 0803.405     | FIELD EXPERIENCES IN JUVENILE CORRECTIONAL INSTITUTIONS (3)          |
| 0803.421     | THE JUNIOR HIGH SCHOOL (3)                                           |
| 0803.457     | METHODS OF TEACHING ENGLISH AS A SECOND LANGUAGE (3)                 |
| 0803.458     | (0803.358) TEACHING COMPOSITION IN THE SECONDARY SCHOOL (3)          |
| 0803.459     | CONTEMPORARY MATERIALS FOR TEACHING ENGLISH IN SECONDARY SCHOOLS (3) |
| 0803.460     | TEACHING READING IN THE SECONDARY SCHOOL (3)                         |
| 0803.461     | TEACHING READING IN THE SECONDARY CONTENT AREAS (3)                  |
| 0803.463     | DEVELOPMENTAL READING FOR THE EARLY ADOLESCENT (3)                   |
| 0803.470-489 | SPECIAL TOPICS IN SECONDARY EDUCATION (1-3)                          |
| 0803.494     | TRAVEL AND STUDY IN SECONDARY EDUCATION (1-6)                        |
| 0803.495     | INDEPENDENT STUDY IN SECONDARY EDUCATION (1-4)                       |
| 0803.496     | DIRECTED READINGS IN SECONDARY EDUCATION (1-4)                       |

### Nondepartmental Listings

- |          |                                                                                              |
|----------|----------------------------------------------------------------------------------------------|
| 1701.429 | READINGS IN MATHEMATICS EDUCATION FOR THE SECONDARY SCHOOL TEACHER (See Math Dept. Listings) |
| 0834.380 | TEACHING SCIENCE IN THE SECONDARY SCHOOL (3)                                                 |

## **Graduate Division**

**0803.503 TEACHING WRITING ACROSS THE CURRICULUM (3)** The process of writing, given for specific school systems by the Maryland Writing Project. Small group and assessment techniques included. Prerequisites: Bachelor's degree; teaching experience.

**0803.505 THEORY, RESEARCH & PRACTICE IN TEACHING (6)** The teaching of writing skills, K-University and across disciplines; training of participants to become Maryland Writing Project teacher consultants. Prerequisites: Bachelor's degree; teaching experience; consent of Maryland Writing Project Director.

**0803.511 ETIOLOGY OF LEARNING DISABILITIES OF SECONDARY SCHOOL STUDENTS (3)** Learning disabilities; psychological and pedagogical principles; diagnosis, prescription, and remediation. Prerequisites: 0803.460 or equivalent; teaching experience.

**0803.521 INDIVIDUALIZING LEARNING IN THE SECONDARY SCHOOL (3)** Philosophical and psychological bases; goal development; organizational patterns; assessment; teaching strategies in content areas; grading and evaluation; programming for classroom, departmental and school levels. Prerequisite: Teaching experience.

**0803.523 THE MIDDLE SCHOOL (3)** Functions and characteristics; historical development; philosophical and psychological bases; nature of transescent youth; curriculum and organizational patterns. Prerequisite: 0802.361 or 0802.462, or 0803.341.

**0803.525 TEACHING IN THE MIDDLE SCHOOL (3)** Goals and objectives; planning; instructional procedures and materials; evaluation techniques; special problems of instructing preadolescents. Prerequisite: Teaching experience.

**0803.527 HUMAN RESOURCE DEVELOPMENT (3)** Teaching/learning dimensions of adults in non-traditional settings — business, industry, government and the non-profit sector. Prerequisite: Teaching experience or course work or experience in personnel.

**0803.531 THE COMMUNITY COLLEGE (3)** Historical development; purposes and goals; curriculum evaluation; finance; accreditation, and trends; state and national patterns; current student needs. Prerequisite: Consent of instructor.

**0803.533 CURRICULUM AND INSTRUCTION IN THE COMMUNITY COLLEGE (3)** Educational programs; curricula; instructional techniques; evaluative procedures; community involvement and societal expectations; concerns and trends affecting programs; objectives as related to institutional goals. Prerequisite: 0803.531 or equivalent.

**0803.535 DISCIPLINE AND CLASSROOM MANAGEMENT IN SECONDARY SCHOOLS (3)** Theories of control; procedures and routines for efficient management; problems in urban and suburban teaching. Prerequisite: Teaching experience or completion of student teaching.

**0803.537 MAINSTREAMING FOR THE CLASSROOM TEACHER (3)** Background and legal bases; programs; methods and materials for special needs children; emphasis on the regular classroom situation. Prerequisite: Student teaching or teaching experience or consent of instructor.

**0803.549 TEACHING GIFTED STUDENTS IN THE SECONDARY SCHOOL (3)** Characteristics of gifted adolescents; role of the gifted in society; educational programs, identification procedures, administrative arrangements, curriculum; and methodology. Prerequisite: Consent of instructor.

**0803.551 (451) SLOW LEARNER IN THE SECONDARY SCHOOL (3)** Motivational devices, development of self-concept, planning instruction, testing and evaluation. Prerequisite: Teaching experience, student teaching, or consent of instructor.

**0803.570-574 SPECIAL TOPICS IN SECONDARY EDUCATION (1-3)** In-depth study of a selected topic. Specific requirements and prerequisites vary as designated by the Department. Prerequisite: Consent of graduate coordinator.

**0803.651 SEMINAR IN SECONDARY SCHOOL CURRICULUM (3)** Curriculum designs and programs; organization for instruction; teacher preparation programs; guidance and nature of the transeccents; community involvement; evaluation. Prerequisite: Course on the middle school area or middle school teaching experience.

**0803.653 SEMINAR IN SECONDARY SCHOOL CURRICULUM (3)** Theories, research, and evaluation; analysis of present programs; rationale for program development and change. Prerequisite: A graduate course in curriculum.

**0803.670-674 grams; SPECIAL TOPICS IN SECONDARY EDUCATION (1-3)**

In-depth study of a selected topic. Specific requirements and prerequisites vary as designated by the department. Prerequisites: Consent of graduate instructor.

**0803.679 SEMINAR IN SECONDARY SCHOOL SOCIAL STUDIES (3)** Current research, trends, practices, issues, content, materials, and problems. Prerequisite: Consent of instructor or prior teaching experience in social studies.

**0803.681 SEMINAR IN SECONDARY EDUCATION (3)** Selected topics with emphasis on research and practice in educational settings. Prerequisites: Twenty-four graduate credits, including 0802.691, and advancement to candidacy status.

**0803.683 SEMINAR IN SECONDARY SUPERVISION (3)** Past, current, and emerging roles of the supervisor; theories and practices. Prerequisite: Nine graduate credits in education.

**0803.798 MASTER'S THESIS IN SECONDARY EDUCATION (3)**  
**0803.799 THESIS CONTINUUM (1)**

## **ADULT EDUCATION COURSES (0807)**

### **Upper Division—Undergraduate and Graduate**

- 0807.485 ADULT EDUCATION (3)
- 0807.487 TEACHING THE ADULT LEARNER (3)
- 0807.489 PRINCIPLES OF READING INSTRUCTION FOR ADULTS (3)

## **SAFETY AND DRIVER EDUCATION COURSES (0836)**

Safety and Driver Education Courses carry graduate credit but may not be applied toward a Master's degree.

### **Upper Division—Undergraduate and Graduate**

- 0836.430 PRINCIPLES OF ACCIDENT PREVENTION (3)
- 0836.431 HIGHWAY TRANSPORTATION SYSTEM AND DRIVER TASK ANALYSIS (3)
- 0836.433 MULTIPLE CAR FACILITIES AND ON-STREET INSTRUCTION IN DRIVER EDUCATION (3)
- 0836.434 FIXED BASE SIMULATION AND ON-STREET INSTRUCTION IN DRIVER EDUCATION (3)
- 0836.439 BASIC PUPIL TRANSPORTATION (3)
- 0836.440 ADVANCED PUPIL TRANSPORTATION (3)
- 0836.441 ADMINISTRATION AND SUPERVISION OF DRIVER EDUCATION (3)



0836.445 CURRICULUM DEVELOPMENT IN DRIVER EDUCATION (3)  
**SPECIAL EDUCATION COURSES (0808)**

**Upper Division—Undergraduate and Graduate**

- 0808.441 SPECIAL NEEDS OF THE HANDICAPPED CHILD (3)  
0808.481 METHODS AND MATERIALS FOR TEACHING THE VISUALLY  
IMPAIRED (3)  
0808.483 BRAILLE READING AND WRITING (3)

**Graduate Division**

**0808.541 INTERVENTION TECHNIQUES—CHILDREN WITH SPECIAL NEEDS (3)** Theory; research; instructional and behavioral strategies; classroom management; crisis intervention; parent conferencing. Prerequisites: 0823.509; 0808.441 or equivalent; 6 credits in Psychology.

**0808.570-579 SPECIAL TOPICS IN SPECIAL EDUCATION (1-3)** Studies in selected content areas tailored to student needs. Prerequisite: Vary according to area of concentration. Consent of coordinator of special education.

**0808.641 INTERNSHIP—CHILDREN WITH SPECIAL NEEDS (3-6)** Placement in a special education facility or special education agency according to student interest and background. Prerequisites: 6 credits special education; 12 credits ECE; 6 credits psychology and consent of coordinator of special education.

**GENERAL EDUCATION COURSES (0801)**

**Upper Division—Undergraduate and Graduate**

- 0801.401 FOUNDATIONS OF EDUCATION (2-3)  
0801.402 HISTORY OF EDUCATION (3)  
0801.403 COMPARATIVE EDUCATION (3)  
0801.405 PHILOSOPHY OF EDUCATION (3)  
0801.406 RECENT TRENDS IN TEACHING (3)  
0801.407 CONTEMPORARY ISSUES IN EDUCATION (3)  
0801.409 FIELD STUDIES OF THE CHILD AND HIS COMMUNITY (2)  
0801.411 OPEN EDUCATION: PHILOSOPHY AND PRACTICE (3)  
0801.412 OPEN EDUCATION: INTERPERSONAL RELATIONS (3)  
0801.414 EDUCATIONAL TESTS AND MEASUREMENTS (2-3)  
0801.415 EDUCATIONAL STATISTICS (3)  
0801.417 CHILDREN'S LITERATURE (3)  
0801.418 YOUNG ADULT LITERATURE (3)  
0801.431 THE SCHOOL CURRICULUM (3)  
0801.433 THE NON-GRADED CURRICULUM (3)  
0801.435 TEACHING PHILOSOPHY IN THE SCHOOLS (3)  
0801.445 HUMAN RELATIONS AND THE INDIVIDUAL (3)  
0801.449 CITIZENSHIP EDUCATION IN THE SCHOOL (3)  
0801.451 GUIDANCE IN THE PUBLIC SCHOOL (2-3)  
0801.453 SUPERVISORY PRACTICES IN TEACHER EDUCATION (3)  
0801.455 INTRODUCTION TO CAREER DEVELOPMENT EDUCATION:  
THEORY AND PRACTICE (3)  
0801.461 LANGUAGE AND THE URBAN CHILD (3)  
0801.463 SEX ROLE DEVELOPMENT IN THE SCHOOLS (2-3)  
0801.467 TEAM TEACHING WORKSHOP (3)  
.489



0801.494 TRAVEL AND STUDY, EDUCATION: (PROJECT TO BE NAMED) (1-6)

0801.495 INDEPENDENT STUDY IN EDUCATION (1-4)

0801.496 DIRECTED READINGS IN EDUCATION (1-4)

### Graduate Division

**0801.501 EDUCATIONAL IDEAS IN HISTORICAL PERSPECTIVE (3)** Current trends and issues in education as reflecting and influencing the social, economic, and political forces in our cultural heritage. Prerequisite: 0801.401 or 0801.402 or 0801.405.

**0801.503 SCHOOL LAW (3)** A study of the legal framework within which the public and non-public schools function. The course will give attention to the legal relationships among federal, state, and local governments; the legal status of school districts, boards of education, and school administrators; the legal status of non-public schools; and the law regarding all facets of the school program, staff, and pupils. Prerequisite: Student teaching or teaching experience.

**0801.507 HOME, SCHOOL, COMMUNITY (3)** The interaction between home and school and community in educational programs; survey and evaluation of techniques for working with parents; study of various agencies contributing to the education and well-being of children and youth at home and at school. Prerequisites: A course in Sociology and approval of Department of Education.

**0801.511 SUPERVISION OF STUDENT TEACHING (3)** An analysis of the roles of the cooperating teacher, college supervisor, and student teacher; current practices, issues, problems, trends and evaluation in laboratory experiences, current research. Prerequisite: Teaching experience.

**0801.514 EDUCATIONAL TESTS AND MEASUREMENTS FOR RESEARCH (3)** Principles underlying educational test instrumentation; problems in measurement; collection and interpretation of data; research application.

**0801.521 READING DISABILITIES (3)** Etiology of reading disabilities, observation and interview procedures, standard and informal tests, report writing, diagnosis and correction of reading difficulties. Prerequisite: One undergraduate course in the teaching of reading.

**0801.523 METHODS AND MATERIALS IN TEACHING READING IN THE ELEMENTARY SCHOOL (3)** Foundations of reading instructions. Methods, materials, and individualized reading designs essential to the organization and administration of a developmental reading program. Prerequisite: one undergraduate course in teaching of reading.

**0801.525 METHODS AND MATERIALS FOR TEACHING READING IN HIGHER EDUCATION (3)** Current methods and materials used in the teaching of reading and study skills. Prerequisite: 6 credits of reading courses or consent of instructor.

**0801.527 ORGANIZATION AND ADMINISTRATION OF READING AND STUDY SKILLS PROGRAMS IN HIGHER EDUCATION (3)** Principles, practices and problems of establishing reading/study skills programs. Prerequisite: 6 credits of reading courses or consent of instructor.

**0801.529 CORRECTIVE READING (3)** The psychology of reading; methods, principles, techniques, and materials for the classroom teacher in meeting a typical learning patterns. Experience in a practicum situation involving the

development of skill in analysis and correction of reading disabilities. Prerequisite: 0802.497 and 0802.429 or 0802.427 or consent of instructor (to provide for students who have had different background and/or experience in the field).

**0801.541 TRANSACTIONAL ANALYSIS IN EDUCATION (3)** Principles and theory of Transactional Analysis, and the relations of this knowledge to education. The application of Transactional Analysis and its related theories to the education setting. Prerequisite: Teacher certification or consent of instructor.

**0801.545 THEORIES IN EDUCATIONAL ADMINISTRATION (3)** Theoretical bases for educational administration. Prerequisite: Teaching experience, teacher certification.

**0803.546 HUMAN RELATIONS AND THE COMMUNITY (3)** Consideration of political, economic, social and educational factors as they affect minority cultures and implications for school and college programs. Prerequisites: Teaching experience or certification.

**0801.549 AMERICAN POLITICS AND EDUCATION (3)** The American political structure and its relation to policy making and administration of public education. Topics includes: educational opportunity, community responsibility and control, accountability, role of the courts, church-state relations, academic freedom. Prerequisites: 0801.401 Foundations of Education, and 2207.103, Introduction to American National Government, or equivalent.

**0801.550 ANALYSIS AND MODIFICATION OF TEACHING BEHAVIOR (3)** The analysis of teaching learning situations to aid the advanced teacher education students to develop, refine and prescribe skills and strategies and field work. Prerequisites: teaching experiences, supervisory experiences, 0801.453, Supervisory Practices in Teacher Education, and/or 0801.511. Supervision of Student Teaching.

**0801.570-574 SPECIAL TOPICS IN EDUCATION (1-3)** In-depth study of a selected topic in Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Approval by the appropriate graduate coordinator is required. each topic may be taken as a separate course. Prerequisite: Varies with each topic.

**0801.585 INTERDISCIPLINARY STUDY IN PHILOSOPHY AND EDUCATION (3)** An interdisciplinary seminar with two aspects; current thought in the philosophy of a variety of academic fields and their implications for the broad field of education. Concentration will be upon development in the present century.

**0801.595 INDIVIDUALIZED STUDY (3-6)** Individually planned programs which will permit the student to engage in research and/or field experiences relative to his professional growth. Admission by application to the graduate program coordinator only.

**0801.601 REPRESENTATIVE AMERICAN EDUCATORS (3)** A biographical approach to the development of American education through selected groups of American educators whose contributions have significantly shaped its form and substance from the colonial period to the present. Prerequisite: 0801.401, Foundations of Education, or the equivalent.

**0801.607 SEMINAR IN EDUCATIONAL CLASSICS I: ANCIENT PERIOD THROUGH THE RENAISSANCE (3)** An in-depth study of the classical works of selected authors. Concentration on liberalizing and humanistic influences. A seminar paper will be developed by each student. Prerequisite: 0801.401, Foundations of Education, or 0801.301, History of Education, or 0801.501 Educational Ideas in Historical Perspective.

**0801.609 SEMINAR IN EDUCATIONAL CLASSICS II: RENAISSANCE TO THE PRESENT (3)** An in-depth study of the classical works of selected authors. Concentration on liberalizing and humanistic influences. Prerequisite: 0801.401, Foundations of Education, or 0801.301, History of Education, or 0801.501, Educational Ideas in Historical Perspective.

**0801.625 CLINIC PRACTICUM IN READING (3-6)** Supervised clinical experience with clients with reading disabilities. Prerequisites: 0801.521 and 0801.523.

**0801.626 TESTS AND MEASUREMENTS IN READING—ADVANCED (3)** Theory and specific techniques of assessing reading programs within the schools, using instruments for evaluating students' specific reading skills, developing a diagnostic instrument for assessing students' performance, and interpreting standardized reading tests. Interpreting and utilization of statistical results will be stressed. prerequisite: one course in tests and measurements or educational statistics.

**0801.627 EVALUATION OF READING RESEARCH (3)** Research and experimentation methodology. Prerequisites: A course in tests and measurements or statistics and consent of instructor.

**0801.629 SEMINAR IN READING (3)** Theories, research, and evaluation in the field of reading. Integration of theory and practice. Prerequisites: 0801.521 and 0801.523.

**0801.631 DIAGNOSIS AND EVALUATION OF READING DISABILITIES (3)** Use of standardized and non-standardized instruments and procedures for evaluating reading disabilities. Prerequisites: 0801.521 and 0801.523.

**0801.641 SEMINAR IN LIABILITY FOR PROFESSIONALS IN EDUCATION (3)** In-depth discussions of a great variety of emerging legal cases appropriate to liability among professions in education. Emphasis will be given to such topics as: negligence, duty, abrogation of duty, foreseeability, in loco parentis, sovereign immunity, suspension and expulsion, professional negotiations, evaluations, and student rights and responsibilities. Prerequisite: One course in School Law.

**0801.645 SCHOOL BUDGETING AND FISCAL PLANNING (3)** Development of a budget on departmental, local school, system-wide, and state levels; implementation and evaluation of budgets; long- and short-term fiscal planning.

**0801.670-674 SPECIAL TOPICS IN EDUCATION (1-3)** In-depth study of a selected topic in Education. The specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Approval by the appropriate Graduate Coordinator is required. Each topic may be taken as a separate course.

**0801.691 INTRODUCTION TO RESEARCH IN EDUCATION (3)** Theory and methodology of educational research. Prerequisite: a course in statistics, or tests and measurements.

**0801.692 INTRODUCTION TO EDUCATIONAL EVALUATION (3)** Theory and methodology of education evaluation for systematic appraisal of process, program, staff or institution. Prerequisite: a course in statistics, or tests and measurements.

**0801.697 INTERNSHIP IN EDUCATION (1-6)** An opportunity to relate theory and practice through experience in such settings as educational institutions and clinics. Plans will be formulated in advance with the graduate coordinator and approved by the Dean of Graduate Studies. Prerequisite: Consent of graduate coordinator, who may require other prerequisites.

**0801.798 MASTER OF EDUCATION THESIS (3)** Investigation of selected topic in education.

**0801.799 THESIS CONTINUUM (1)**

0831.595 RESEARCH IN ART AND ART EDUCATION (3)  
(See Art Dept. Listings)

0831.697 SEMINAR IN ART EDUCATION (3) (See Art Dept. Listings)

0832.502 CURRENT TRENDS IN MUSIC AND MUSIC EDUCATION  
(See Music Dept. Listings)

1701.525 SEMINAR IN MATHEMATICS EDUCATION FOR SECONDARY  
SCHOOL TEACHERS (See Math Dept. Listings)





# ENGLISH

Co-Chairperson—Donald H. Craver

Co—Chairperson—Dan L. Jones

## ENGLISH COURSES (1501)

### Upper Division—Undergraduate and Graduate

- 1501.302 THE ENGLISH RENAISSANCE (3)
- 1501.303 THE LATER RENAISSANCE (3)
- 1501.309 AMERICAN DRAMA (3)
- 1501.312 WORLD DRAMA I (3)
- 1501.313 WORLD DRAMA II (3)
- 1501.319 ENGLISH MEDIEVAL AND RENAISSANCE DRAMA (3)
- 1501.320 ENGLISH DRAMA FROM THE RESTORATION TO SHAW (3)
- 1501.321 MODERN DRAMA (3)
- 1501.323 THE CONTINENTAL NOVEL (3)
- 1501.325 HISTORICAL LINGUISTICS (3)
- 1501.325 MYTH AND LITERATURE (3)
- 1501.326 STRUCTURAL LINGUISTICS (3)
- 1501.328 HISTORY AND LITERATURE OF THE OLD TESTAMENT (3)
- 1501.329 HISTORY OF AMERICAN ENGLISH (3)
- 1501.332 COMPARATIVE GRAMMAR (3)
- 1501.335 LITERATURE OF THE ENGLISH ROMANTIC PERIOD (3)
- 1501.337 VICTORIAN PROSE AND POETRY I (3)
- 1501.338 VICTORIAN PROSE AND POETRY II (3)
- 1501.340 MEDIEVAL LITERATURE (3)
- 1501.345 EIGHTEENTH CENTURY ENGLISH LITERATURE (3)
- 1501.347 FOLKLORE AND LITERATURE (3)
- 1501.401 THE LITERATURE OF BLACK AMERICA (3)
- 1501.405 HISTORY OF LITERARY CRITICISM (3)
- 1501.407 MODERN POETRY (3)
- 1501.408 MODERN FICTION TO WORLD WAR II (3)
- 1501.409 MODERN FICTION SINCE WORLD WAR II (3)
- 1501.410 CHAUCER (3)
- 1501.412 MILTON AND THE HUMANISTIC TRADITION (3)
- 1501.415 SHAKESPEARE (COMEDIES) (3)
- 1501.416 SHAKESPEARE (TRAGEDIES) (3)
- 1501.419 THE TWENTIETH-CENTURY BRITISH NOVEL (3)
- 1501.420 TWENTIETH-CENTURY BRITISH POETRY (3)
- 1501.422 DEVELOPMENT OF THE ENGLISH NOVEL I (3)
- 1501.423 DEVELOPMENT OF THE ENGLISH NOVEL II (3)
- 1501.427 LITERATURE OF THE AMERICAN ROMANTIC PERIOD (3)
- 1501.428 LITERATURE OF THE AMERICAN REALISTIC PERIOD (3)
- 1501.430 HISTORY OF THE ENGLISH LANGUAGE (3)
- 1501.431 STRUCTURE OF THE ENGLISH LANGUAGE (3)
- 1501.435 AMERICAN SHORT STORY (3)
- 1501.437 BRITISH AND AMERICAN PROSE (3)
- 1501.445 NINETEENTH-CENTURY AMERICAN NOVEL (3)
- 1501.446 TWENTIETH-CENTURY AMERICAN NOVEL (3)
- 1501.447 AMERICAN POETRY THROUGH ROBERT FROST (3)
- 1501.448 TWENTIETH-CENTURY AMERICAN POETRY (3)
- 1501.471 TOPICS IN WORLD LITERATURE (2 or 3)
- 1501.472 TOPICS IN ENGLISH LITERATURE (2 or 3)



- 1501.473 TOPICS IN AMERICAN LITERATURE (2 or 3)
- 1501.474 TOPICS IN WOMEN'S STUDIES (3)
- 1501.475 TOPICS IN MULTI-ETHNIC AMERICAN LITERATURE (3)
- 1501.476 TOPICS IN LINGUISTICS (3)
- 1501.485 SEMINAR IN ENGLISH STUDIES I (3)
- 1501.486 SEMINAR IN ENGLISH STUDIES II (3)
- 1501.491 DIRECTED READING IN ENGLISH (2-4)
- 1501.494 TRAVEL AND STUDY (3-6)

### **Graduate Division**

**1501.521 STUDIES IN ENGLISH LITERATURE (3)** Study of one major area of English Literature (author, period, movement, etc.) Areas vary from semester to semester. Prerequisite: Graduate standing or consent of department.

**1501.523 STUDIES IN LITERARY CRITICISM (3)** Study of one major area of literary criticism (author, period, movement, etc.) Areas vary from semester to semester. Prerequisite: Graduate standing or consent of department.

**1501.525 STUDIES IN AMERICAN LITERATURE (3)** Study of one major area of American literature (author, period, movement, etc.) Areas vary from semester to semester. Prerequisite: Graduate standing or consent of department.

**1501.527 STUDIES IN WORLD LITERATURE (3)** Study of one major area of world literature (author, period, movement, etc.) Areas vary from semester to semester. Prerequisite: Graduate standing or consent of department.

**1501.531 STUDIES IN LINGUISTICS (3)** Topics in the technology and philosophy of language: descriptive grammar, psycholinguistics, sociolinguistics, etc. Topics vary from semester to semester. Prerequisites: graduate standing or consent of department.

## **GENERAL STUDIES**

### **Upper Division—Undergraduate and Graduate**

- 4901.401 TOPICS IN SOCIAL SCIENCE (3)
- 4901.411 CREATIVE METHODS OF SOLVING PROBLEMS WORKSHOP (3)
- 4901.421 INTERDISCIPLINARY WORKSHOP IN ASIAN STUDIES (3)
- 0305.410 AFRO-AMERICAN PERSPECTIVES (3)
- 2296.331 CHANGING SEX ROLES (3)
- 2296.332 WOMEN'S CULTURE & CREATIVITY (3)
- 2296.491 DIRECTED READING IN WOMEN'S STUDIES (3)
- 2296.496 PRACTICUM IN WOMEN'S STUDIES (3)

### **Graduate Division**

**4901.501 INTRODUCTORY SEMINAR IN LIBERAL STUDIES (3)** An orientation graduate study and the use of scholarly resources and research techniques to prepare the student to develop and accomplish his/her thematic plan of study. Cross-disciplinary approaches will be stressed.

**4901.502 CULMINATING SEMINAR IN LIBERAL STUDIES (3)** For graduate students in the Master of Arts in General Studies degree program. A seminar course which seeks primarily to integrate effectively the knowledge and skills developed by the student through the program of study. Each student will undertake an individualized research project involving an analysis of the rationale for and content of the particular program theme. Open only to students in the Master of Arts in General Studies degree program. Must be taken in the last semester of degree work.



# **GEOGRAPHY AND ENVIRONMENTAL PLANNING**

Chairperson: James E. Dilisio

Graduate Departmental Coordinator; Geography and Environmental Planning Program:

Wayne McKim

## **GEOGRAPHY COURSE (2206)**

**Upper Division—Undergraduate and Graduate**

### **SYSTEMATIC COURSES**

- 2206.317 ENERGY RESOURCES (3)
- 2206.319 SOILS AND VEGETATION (3)
- 2206.351 URBAN DESIGN—MAN-SPACE-ENVIRONMENT (3)
- 2206.353 PRINCIPLES OF ZONING (3)
- 2206.355 HISTORICAL GEOGRAPHY OF URBANIZATION (3)
- 2206.361 ADVANCED ECONOMIC GEOGRAPHY (3)
- 2206.363 SPATIAL ORGANIZATION OF ECONOMIC ACTIVITY (3)
- 2206.371 ADVANCED PHYSICAL GEOGRAPHY (4)
- 2206.373 CLIMATOLOGY (3)
- 2206.375 QUANTITATIVE METHODS IN GEOGRAPHY (3)
- 2206.377 DESCRIPTIVE METEOROLOGY (4)
- 2206.381 POLITICAL GEOGRAPHY (3)
- 2206.385 POPULATION AND SETTLEMENT (3)
- 2206.391 URBAN SYSTEMS I (3)
- 2206.392 URBAN SYSTEMS II (3)
- 2206.401 GROWTH OF GEOGRAPHIC THOUGHT (3)
- 2206.403 PLANNING IMPLEMENTATIO (3)
- 2206.405 COMPREHENSIVE PLANNING (3)
- 2206.411 STUDIES IN NATURAL HAZARDS
- 2206.415 GEOGRAPHICAL ASPECTS OF POLLUTION (3)

### **TECHNIQUE COURSES**

- 2206.321 INTERPRETATION OF AERIAL PHOTOGRAPHS (3)
- 2206.323 CARTOGRAPHY AND GRAPHICS I (3)
- 2206.324 CARTOGRAPHY AND GRAPHICS II (3)
- 2206.327 MPA ANALYSIS AND INTERPRETATION (3)
- 2206.341 TECHNIQUES AND MATERIALS FOR GEOGRAPHY  
TEACHERS (3)

### **REGIONAL COURSES**

- 2206.419 EASTERN ANGLO-AMERICA (3)
- 2206.420 WESTERN ANGLO-AMERICA (3)
- 2206.432 MARYLAND AND THE MIDDLE ATLANTIC REGION (3)
- 2206.431 GEOGRAPHY OF AFRICA (3)
- 2206.441 GEOGRAPHY OF AUSTRALIA AND OCEANIA (3)
- 2206.443 GEOGRAPHY OF EAST ASIA (3)
- 2206.445 GEOGRAPHY OF SOUTH AND SOUTHEAST ASIA (3)
- 2206.447 ECONOMIC AND POLITICAL GEOGRAPHY OF THE MIDDLE  
EAST (3)
- 2206.451 GEOGRAPHY OF EUROPE (3)
- 2206.453 GEOGRAPHY OF THE USSR (3)
- 2206.461 GEOGRAPHY OF SOUTH AMERICA (3)
- 2206.463 GEOGRAPHY OF CENTRAL AMERICA AND THE  
CARIBBEAN (3)

## SEMINARS AND SPECIAL COURSES

- 2206.357 CULTURAL GEOGRAPHY (3)  
2206.359 ECONOMIC GEOGRAPHY (3)  
2206.413 TECHNOLOGY AND THE ENVIRONMENT: A GLOBAL PERSPECTIVE (3)  
2206.470- SEMINAR:  
.479 SELECTED TOPICS IN GEOGRAPHY (3)  
2206.483 SEMINAR: THE AMERICAS (3)  
2206.485 SEMINAR: SOUTH ASIA (3)  
2206.487 SEMINAR: GEOGRAPHY AND MAN IN THE TWENTIETH CENTURY (3)  
2206.489 SEMINAR: STUDIES IN ENVIRONMENTAL QUALITY (3)  
2206.491 GEOGRAPHY/ENVIRONMENTAL PLANNING INTERNSHIP (1-6)  
2206.493 FIELD GEOGRAPHY (2-6)  
2206.494 TRAVEL STUDY (3-6)  
2206.495 DIRECTED READING IN GEOGRAPHY (3)  
2206.496 INDEPENDENT STUDY IN GEOGRAPHY (1-6)

### Graduate Division

**2206.501 GEOGRAPHIC METHODOLOGY AND TECHNIQUES: TRENDS AND PROSPECTS (3)** Significant developments in the evolution of geographic thought, techniques and methodology. Prerequisites: Graduate standing.

**2206.503 APPLIED PHYSICAL GEOGRAPHY (3)** Physical environment as it influences and is influenced by human activities. Prerequisites: Geography 101 (or equivalent).

**2205.521 RESEARCH TECHNIQUES (3)** Investigation of the primary sources of information in geography and to learn the nature of original investigation. Prerequisite: Graduate Standing.

**2206.531 REMOTE SENSING (3)** Remote sensing systems. Interpretation and use of their data products, with emphasis on Land Satellite Imagery (Landsat). Prerequisites: Consent of department.

**2206.561 STUDIES IN ECONOMIC GEOGRAPHY (3)** The study of selected geographical topics dealing with spatial distributions of economic activities. Topics will be announced. No more than 6 semester hr. may be applied toward a degree. Prerequisite: Consent of department.

**2206.571 STUDIES IN PHYSICAL GEOGRAPHY (3)** Selected geographical topics dealing with physical landscape phenomena, especially with regard to distribution, relationships, and significance to man. Topics will be announced. No more than 6 semester hr. may be applied toward a degree. Prerequisite: Consent of department.

**2206.572-579 SPECIAL TOPICS IN GEOGRAPHY AND ENVIRONMENTAL PLANNING (3)** Topics in geography or environmental planning. Varies each semester. Prerequisites: Consent of department.

**2206.581 SEMINAR IN POLITICAL GEOGRAPHY (2-6)** Special subjects dealing with geography of international politics, e.g., boundary problems, global strategy, space, sovereignty. Topics to be announced. No more than 6 semester hr. may be applied toward a degree. Prerequisite: Consent of department.



**2206.583 SEMINAR: ENVIRONMENTAL PROBLEMS IN MARYLAND (3)** Individual research on a selected environmental problem in Maryland. Prerequisite: Consent of department.

**2206.591 URBAN GEOGRAPHY STUDIES (2-6)** Selected topics dealing with the application of geography to planning, retail and industrial location, and trade analysis. Topics to be announced. No more than 6 semester hr. may be applied toward a degree. Prerequisite: consent of department

**2206.601 LAND USE STUDIES (2-6)** Selected problems on urban, rural and rural-urban landscapes which consider and account for geographic differences in land utilization. Topics will be announced. No more than 6 semester hr. may be applied toward a degree. Prerequisite: Consent of department.

**2206.671 SEMINAR IN REGIONAL GEOGRAPHY (2-6)** Description, analysis and interpretation of natural and cultural phenomena in certain significant geographic regions. Seminar topics will be announced. No more than 6 semester hr. may be applied toward a degree. Prerequisite: Consent of department.

**2206.697 RESEARCH (2-6)** Investigation of problems based upon field and library study, which will contribute to geographical knowledge. Designed for Master's thesis credit or individual research. Prerequisite: Consent of department.

**2206.798 MASTER'S THESIS (3-6)** Prerequisite: 2206.521 and consent of department.

**2206.799 THESIS CONTINUUM (1)**





# HEALTH SCIENCE

Chairperson: Neil Gallagher

Graduate Departmental Coordinator: Phyllis G. Ensor

## HEALTH COURSES (1201)

### Upper Division—Undergraduate and Graduate

- 1201.401 SEX EDUCATION AND FAMILY LIFE (3)  
1201.402 HEALTH SEMINAR (3)  
1201.403 HEALTH EDUCATION CURRICULUM (3)  
1201.405 DRUGS IN OUR CULTURE (3)  
1201.411 HEALTH AND LATER MATURITY—THE AGING PROCESS (3)  
1201.451 ECOLOGICAL ASPECTS OF HEALTH (3)  
1201.470-479 HEALTH WORKSHOP (3)  
1201.491 HEALTH-DIRECTED READING (1-3)  
1201.494 TRAVEL & STUDY (3)  
1201.495 INDEPENDENT STUDY (3)

### Graduate Division

**1201.501 PROBLEMS IN SCHOOL HEALTH (3)** Structure, organization, scope, content and practices in school health as revealed through literature and research.

**1201.511 CURRENT LITERATURE IN HEALTH (3)** Research findings concerning health knowledge, attitudes, behavior, and educational techniques. A comprehensive review of health-related periodicals. Prerequisite: Consent of department.

**1201.513 ANALYSIS OF PHYSIOLOGICAL CONCEPTS (3)** Physiological factors that affect human efficiency before, during and after exercise, including: metabolism, circulation, respiration, muscular physiology, endocrine system, ergogenic aids, environmental factors, etc. Prerequisite: Consent of department.

**1201.515 COMMUNITY HEALTH: QUALITATIVE & QUANTITATIVE ELEMENTS (3)** Vital and health statistics, population dynamics, epidemiology, quantitative models and simulation for health systems planning/evaluation. Prerequisite: Consent of department chairperson.

**1201.517 PUBLIC HEALTH ADMINISTRATION (3)** Dynamics of the health industry: concepts of management and administration. Prerequisites: Graduate standing in health science.

**1201.525 RESEARCH METHODS IN HEALTH (3)** Research and statistical designs related to health science and allied health disciplines. Prerequisites: Basic statistics, or tests and measurements and graduate standing, or consent of instructor.

**1201.531 PROGRAM PLANNING IN HEALTH EDUCATION (3)** Planning models in health with integration to program planning for health information and health promotion. Skills developed in proposal writing. Prerequisites: Admission to graduate program and 1201.539.

**1201.533 HEALTH CARE SYSTEMS (3)** Development of the American health care system and trends in organization, administration, funding, and legislation. Prerequisites: Graduate standing.

**1201.535 EDUCATION STRATEGIES FOR HEALTH (3)** A seminar analyzing application of education and social science theories for health promotion and health education. Prerequisites: 1201.539 or 1201.501.

**1201.537 SKILL DEVELOPMENT: LEADERSHIP IN THE HEALTH CARE SETTING (3)** Didactic and experiential activities in community health education with emphasis on human interaction and leadership skills. Prerequisite: Admission to M.S. Program (or other graduate students with permission), 1201.539.

**1201.539 EDUCATION AND TRAINING IN HEALTH CARE (3)** The adult learner and health education. Recommended as the first course in all Health Science Program concentrations. Prerequisite: admission to program.

**1201.541 PATIENT EDUCATION: INTRODUCTION AND APPLICATION (3)** Education of the patient in terms of personal health behavior in relation to chronic and communicable disease. Emphasis on local patient education programs. Prerequisite: 1201.539.

**1201.543 HEALTH EDUCATION: CURRICULUM DEVELOPMENT AND SUPERVISION (3)** Methods and techniques for designing and implementing school health education. Prerequisites: 1201.539 or consent of instructor.

**1201.551 PLANNING AND MARKETING HEALTH IN BUSINESS AND INDUSTRY (3)** Health promotion and delivery in the profit and not-for-profit sectors. Concepts and application of planning and marketing health in various settings. Prerequisites: 1201.517, 1201.533, 1201.539 and consent of instructor.

**1201.570-579 SPECIAL TOPICS (3)** Focuses on currently important health topics: fitness in a hypokinetic world, aging, death, alcohol and its abuse, consumerism, disease, weight control, value clarification, developing a personal philosophy of health. Prerequisite: 6 semester hours in health or permission of department.

**1201.589 FIELD EXPERIENCE (3-6)** Supervised on-site experience in the following community health settings: hospital, clinic, agencies, business/industry. Prerequisites: 1201.539, graduate standing and consent of graduate coordinator.

**1201.591 DIRECTED READINGS IN HEALTH (3)** Individual study of a problem in health through consultation with faculty members. Prerequisites: Consent of department.

**1201.685 RESEARCH SEMINAR IN HEALTH (3)** Analysis of research trends and issues in health education. Student presentation of research designs and projects. Professional membership and ethics. Prerequisites: 1201.525, 1201.539.

**1201.687 HEALTH SCIENCE INTERNSHIP (9)** Three month supervised field experience in an agency or hospital. Prerequisites: 1201.539, 1201.515, 1201.525, 1201.531 and consent of graduate coordinator.

**1201.797 GRADUATE PROJECT IN HEALTH SCIENCE (3)** Individual study and preparation of a project which is oriented toward the application of specific techniques in health education. Prerequisites: 1201.525, 1201.685.

**1201.798 MASTER'S THESIS IN HEALTH (3)** An original investigation using an acceptable research method and design conducted under the direction of one or more faculty members. Prerequisites: 1201.539, 1201.525, 1201.685.

**1201.799 THESIS CONTINUUM (1).**



# HISTORY

Chairperson: Mary Catherine Kahl

## HISTORY COURSES (2205)

### Upper Division—Undergraduate and Graduate

- 2205.301 ANCIENT NEAR EASTERN CIVILIZATIONS (3)
- 2205.303 HELLENISTIC CIVILIZATION (3)
- 2205.304 ANCIENT GREEK CIVILIZATION (3)
- 2205.305 ROMAN CIVILIZATION (3)
- 2205.311 TRADITIONAL INDIA: ITS HISTORICAL DEVELOPMENT (3)
- 2205.312 HISTORY OF MODERN INDIA (3)
- 2205.313 HISTORY OF MODERN SOUTHEAST ASIA (3)
- 2205.315 REVOLUTIONARY CHINA (3)
- 2205.317 MODERN JAPAN (3)
- 2205.321 HISTORY OF MEXICO: PRE-COLUMBIAN AND COLONIAL (3)
- 2205.322 HISTORY OF MEXICO: NATIONAL PERIOD (3)
- 2205.325 HISTORY OF INDIANS IN LATIN AMERICA: MAYA, AZTEC, AND INCA (3)
- 2205.327 BUSINESS HISTORY OF LATIN AMERICA (3)
- 2205.334 HISTORY OF WEST AFRICA 1500-1885 (3)
- 2205.335 HISTORY OF RECENT AFRICA (3)
- 2205.345 THE AMERICAN COLONIES: 1492-1763 (3)
- 2205.346 THE AMERICAN REVOLUTIONARY PERIOD: 1763-1789 (3)
- 2205.347 THE EARLY NATIONAL PERIOD (3)
- 2205.348 THE JACKSONIAN ERA (3)
- 2205.349 THE CIVIL WAR (3)
- 2205.350 THE ERA OF RECONSTRUCTION (3)
- 2205.351 THE GILDED AGE (3)
- 2205.352 THE POPULIST-PROGRESSIVE ERA (3)
- 2205.359 RECENT AMERICAN HISTORY: 1920-1945 (3)
- 2205.360 RECENT AMERICAN HISTORY: 1945-1975 (3)
- 2205.361 AMERICAN INTELLECTUAL & RELIGIOUS HISTORY (3)
- 2205.363 SOCIAL HISTORY OF THE U.S. TO 1865 (3)
- 2205.364 SOCIAL HISTORY OF THE U.S. SINCE 1865 (3)
- 2205.366 A HISTORY OF AMERICAN BUSINESS (3)
- 2206.367 CONSTITUTIONAL HISTORY OF THE UNITED STATES TO 1868 (3)
- 2205.368 CONSTITUTIONAL HISTORY OF THE UNITED STATES SINCE 1868 (3)
- 2205.369 DIPLOMATIC HISTORY OF THE UNITED STATES TO 1900 (3)
- 2205.370 DIPLOMATIC HISTORY OF THE UNITED STATES SINCE 1900 (3)
- 2205.373 EARLY AMERICAN FRONTIER (3)
- 2205.374 THE FAR WESTERN FRONTIER (3)
- 2205.375 THE CITY IN AMERICAN HISTORY (3)
- 2205.377 THE IMMIGRANT IN AMERICAN HISTORY (3)
- 2205.379 INDIAN-WHITE RELATIONS IN AMERICAN HISTORY (3)
- 2205.381 HISTORY OF AFRO-AMERICANS (3)
- 2205.383 AMERICAN RADICALISM SINCE 1890 (3)
- 2205.385 AMERICAN LABOR (3)
- 2205.391 HISTORY OF CANADA (3)



- 2205.397 HISTORY OF MARYLAND FROM COLONIAL TIMES TO THE PRESENT (3)
- 2205.410 THE EARLY MIDDLE AGES, 300-1050 (3)
- 2205.402 THE HIGH MIDDLE AGES, 1050-1350 (3)
- 2205.403 THE RENAISSANCE ERA: 1300-1530 (3)
- 2205.404 THE REFORMATION: 1500-1648 (3)
- 2205.405 EUROPE: 1648-1815 (3)
- 2205.406 EUROPE: 1815-1914 (3)
- 2205.407 EUROPE: 1914-1939 (3)
- 2205.408 EUROPE SINCE 1939 (3)
- 2205.410 EUROPEAN SOCIAL HISTORY SINCE THE EIGHTEENTH CENTURY (3)
- 2205.411 HISTORY OF EUROPEAN WOMEN (3)
- 2205.413 EUROPEAN MILITARY HISTORY, 1871-1945 (3)
- 2205.415 DIPLOMATIC HISTORY OF EUROPE: 1815-1939 (3)
- 2205.417 ECONOMIC HISTORY OF EUROPE TO THE MID-EIGHTEENTH CENTURY (3)
- 2205.418 ECONOMIC HISTORY OF EUROPE SINCE THE MID-EIGHTEENTH CENTURY (3)
- 2205.420 EUROPEAN IDEAS: FRENCH REVOLUTION TO THE PRESENT (3)
- 2205.421 BRITAIN IN THE TWENTIETH CENTURY (3)
- 2205.431 FRANCE: 1763-1871 (3)
- 2205.441 GERMANY: 1871-1945 (3)
- 2205.451 RUSSIA: 1696-1894 (3)
- 2205.452 RUSSIA SOVIET UNION: 1894-1953 (3)
- 2205.453 HISTORY OF SOVIET RUSSIA SINCE STALIN, 1953 TO THE PRESENT (3)
- 2205.477 EUROPE IN THE THIRD WORLD: COLONIALISM TO CRISIS (3)
- 2205.479 A HISTORY OF DIPLOMACY (3)
- 2205.481 HISTORY OF MANAGEMENT (3)
- 2205.483 DIRECTED INDIVIDUAL RESEARCH (3)
- 2205.489 ORAL HISTORY (3)
- 2205.490 INTERPRETIVE PROBLEMS IN HISTORY (3)
- 2205.491 BIOGRAPHICAL STUDIES IN HISTORY (3)
- 2205.492 HISTORICAL THEMES (3)
- 2205.494 TRAVEL & STUDY (3-6)
- 2205.496 COLLOQUIUM (3)
- 2205.497 DIRECTED READING (3)
- 2205.498 PHILOSOPHY OF HISTORY (3)

### Graduate Division

**2205.683 DIRECTED INDIVIDUAL RESEARCH (2-4)** Research and reading with a historical topic to be selected by the instructor and student. Prerequisites: 18 hours of History and consent of the instructor and department chairperson.

**2205.697 DIRECTED READING IN HISTORY (2-4)** Reading in areas of history selected by the instructor and the student. Prerequisites: Graduate standing and 18 hours of History and consent of the instructor and department chairperson.



# INSTRUCTIONAL TECHNOLOGY

Chairperson: Paul Jones

Graduate Departmental Coordinator: Gary W. Rosecrans

## INSTRUCTIONAL TECHNOLOGY COURSES (0601)

### Upper Division—Undergraduate and Graduate

- 0601.301 UTILIZATION OF INSTRUCTIONAL MEDIA (3)
- 0601.401 HISTORY OF INSTRUCTIONAL TECHNOLOGY (3)
- 0601.423 INSTRUCTIONAL MOTION PICTURE FILMMAKING (3)
- 0601.431 SURVEY OF LEARNING BY TELEVISION (3)
- 0601.435 INSTRUCTIONAL TELEVISION UTILIZATION (3)
- 0601.441 COMPUTER TECHNOLOGY AND UTILIZATION (3)
- 0601.453 INTRODUCTION TO INSTRUCTIONAL PHOTOGRAPHY (3)
- 0601.471 REFERENCE AND INFORMATION SOURCES (3)
- 0601.473 CATALOGING AND CLASSIFICATION OF MEDIA (3)

### Graduate Division

**0601.501 ORGANIZATION AND ADMINISTRATION OF MEDIA CENTER PROGRAMS (3)** Organizational patterns, management procedures, and supervisory methods and techniques for instructional materials centers. Topics include: facilities, finance, selection, procurement, security and basic maintenance of equipment and materials; center operation, extension and in-service programs, assessments of systems and programs, and public relations. Prerequisite: 6 upper division credits of ISTC courses.

**0601.515 MEDIA SELECTION (3)** Criteria used to select media, classroom management techniques in using media, and various evaluation instruments. Prerequisite: 6 upper division credits of ISTC courses.

**0601.533 INSTRUCTIONAL TELEVISION (3)** The ITV movement; ITV systems and terminology; elements of production; classroom utilization of the ITV product; developing the ITV workshop; careers in ITV; and aspects of administration, philosophy, evaluation, and research in ITV. Prerequisite: 6 upper division credits of ISTC courses.

**0601.534 INDEPENDENT STUDY: INSTRUCTIONAL MOTION PICTURE FILMMAKING II (3)** Scriptwriting techniques, directional techniques, including areas such as: background, audio, lighting, and optics applications. Special effects techniques, such as animation, slow and stop motion. Prerequisites: 0601.423, and consent of chairperson.

**0601.555 MEDIA DESIGN AND PRODUCTION I (3)** The design and production of a teacher-made instructional materials and the production of materials. Prerequisites: bachelor's degree.

**0601.556 MEDIA DESIGN AND PRODUCTION II (3)** Production techniques and planning of instructional materials. Research and theory relevant to perception and communication are explored. Prerequisite: 0601.555 and consent of chairperson.

**0601.563 APPLIED PSYCHOLOGY OF LEARNING (3)** Behaviorist and Gestalt learning theories and the principles of Gagne and Piaget. Prerequisites: 0601.301 and one other instructional technology course.

**0601.567 INSTRUCTIONAL DEVELOPMENT (3)** Includes an overview of the systems approach and its use in problem solving. The application of the systems approach with instructional technology to the problems of instruction is studied in detail. Students are required to demonstrate competencies in designing mediated instructional sequences and in evaluating media with behavioral descriptors. Prerequisites: 0601.563 and written permission.

**0601.571 ADVANCED REFERENCE (3)** Bibliographic and research for the retrieval of information using manual and automated information delivery system techniques. Prerequisites: 0601.471 or equivalent.

**0601.573 INSTRUCTIONAL FACILITIES DESIGN (3)** A systems approach to the integration of media and facilities into a unit to fulfill instructional training goals. Time and sequential phasing relationships and interaction of human, technical, and environmental resources. The application of equipment and facilities designed for individually prescribed and for large group or multi-media instruction. Prerequisites: 6 upper division hours of instructional technology at the 400 level or above, and consent of chairperson.

**0601.585 SEMINAR IN INSTRUCTIONAL TECHNOLOGY (3)** The analysis, synthesis and evaluation of the literature of instructional technology. Students who do not receive at least a "B" in this must take an advancement examination. Prerequisite: 0601.301.

**0601.587 MEDIA DESIGN FOR INDIVIDUALIZED INSTRUCTION (3)** Linear and intrinsic or branching programming. The evaluation of programs. Prerequisites: Bachelor's degree.

**0601.591 DIRECTED READINGS IN INSTRUCTIONAL TECHNOLOGY (3)** Independent readings and research in selected areas of instructional technology. Prerequisite: Consent of chairperson.

**0601.595 INDEPENDENT STUDY IN INSTRUCTIONAL TECHNOLOGY (3)** Individual and supervised study of research problems and special projects in specific areas of Instructional Technology. Prerequisites: Consent of chairperson or instructor.

**0601.689 INTERNSHIP IN INSTRUCTIONAL TECHNOLOGY (6)** Work in a school media center under professional supervision, satisfies practicum requirements for certification as a media specialist or media generalist. Prerequisites: 0601.471; 0601.473; 0601.501 and 15 additional credits in Instructional Technology and consent of chairperson.

**0601.695 INTRODUCTION TO RESEARCH IN INSTRUCTIONAL TECHNOLOGY (3)** Elements of research writing, basic concepts of inferential statistics and research in the field of instructional technology. Prerequisites: 6 credits of ISTC courses at the 500 — 600 level and consent of chairperson.

**0601.697 SUPERVISED FIELD EXPERIENCES IN INSTRUCTIONAL TECHNOLOGY (3)** Project under the direction of a faculty advisor and a formal paper. The course may be taken twice for credit. Prerequisites: 0601.695 and consent of chairperson.

**0601.798 MASTER'S THESIS (3-6)** An original investigation, using research method and design, of a research problem. Credit granted after thesis accepted. Prerequisite: Advanced to degree candidacy and consent of chairperson.

**0601.799 THESIS CONTINUUM (1)**

# MATHEMATICS AND COMPUTER SCIENCE

Gerald O. Riggleman

## Upper Division—Undergraduate and Graduate

- 1701.331 PROBABILITY (3)
- 1701.332 MATHEMATICAL STATISTICS (3)
- 1701.357 COLLEGE GEOMETRY (3)
- 1701.361 ALGEBRAIC STRUCTURES (4)
- 1701.365 LINEAR ALGEBRA (3)
- 1701.367 THEORY OF NUMBERS(3)
- 1701.373 CALCULUS III (4)
- 1701.377 MATHEMATICAL MODELS (3)
- 1701.421 APPLICATIONS OF MATHEMATICS FOR SECONDARY SCHOOL TEACHERS (3)
- 1701.424 TEACHING THE METRIC SYSTEM (1)
- 1701.425 METHODS AND MATERIALS FOR MATH LAB INSTRUCTION (3)
- 1701.427 READINGS IN MATHEMATICS EDUCATION FOR THE ELEMENTARY SCHOOL TEACHER (1-3)
- 1701.429 READINGS IN MATHEMATICS EDUCATION FOR THE SECONDARY SCHOOL TEACHER (1-3)
- 1701.435 NUMERICAL ANALYSIS I (3)
- 1701.436 NUMERICAL ANALYSIS II (3)
- 1701.451 MATH RESEARCH IN GRAPH THEORY (3)
- 1701.457 DIFFERENTIAL GEOMETRY I (3)
- 1701.461 ADVANCED TOPICS IN ALGEBRA (3)
- 1701.471 DIFFERENTIAL EQUATIONS (3)
- 1701.773 ADVANCED CALCULUS I (3)
- 1701.474 ADVANCED CALCULUS II (3)
- 1701.475 COMPLEX ANALYSIS (3)
- 1701.477 TOPOLOGY (3)
- 1701.480-489 SELECTED TOPICS IN MATHEMATICS AND STATISTICS (1-4)
- 1701.491 READINGS IN MATHEMATICS (1-3)

## Graduate Division

**1701.501 HISTORY OF MATHEMATICS (3)** A historical survey of the classical roots of contemporary mathematics with selected topics chosen from number theory, geometry, analysis and algebra.

**1701.521 SEMINAR IN TEACHING ARITHMETIC (3)** Analysis of new topics, techniques, and materials in arithmetic instruction. Students may not receive credit for both 1701.521 and 1701.422, except by special permission from the graduate program coordinator and the chairperson of the mathematics department. Prerequisite: 1701.321 or 1701.323.

**1701.525 SEMINAR IN MATHEMATICS EDUCATION FOR SECONDARY SCHOOL TEACHERS (3)** An investigation of recent curricula, methods, and materials for secondary school mathematics instructors. Prerequisite: 1701.423 or equivalent.

**1701.530 STATISTICS—AN INTEGRATED APPROACH (4)** Theory and practices of basic statistical analysis and inference with emphasis on analyzing and solving real problems using statistics. Descriptive statistics, introduction to probability, sampling distributions, estimation, hypotheses testing, regression, correlation, non-parametric techniques and analysis of variance, computer programming incorporated throughout. Prior knowledge of programming is not necessary. (Not open to those who have taken 1701.332.) Prerequisite: 1701.274.

**1701.531 TOPICS IN PROBABILITY (3)** Review of basis probability theory, types of convergence and limit theorems, elementary stochastic processes. Markov chains, birth and death processes. Gaussian processes. Examples from engineering, physical and social sciences, management and statistics. Prerequisite: 1701.331.

**1701.553 TOPICS IN GEOMETRY (3)** Axiomatic development of Euclidean, elliptic and hyperbolic geometries; the study of the analytic plane, the sphere and the Poincare model as models for these axiomatic systems. Not open to students who have had 1701.353. Prerequisites: 1701.274 and 1701.361.

**1701.561 ELEMENTS OF GALOIS THEORY (3)** Review of elementary group theory, polynomial rings, algebraic field extensions. Galois theory, polynomial rings, algebraic field extensions. Galois theory for fields of characteristic zero, solution of polynomial equations by radicals, and other applications of the Galois theory. Prerequisite: 1701.361

**1701.591 SEMINAR IN MATHEMATICAL APPLICATIONS (3)** Survey with topics to be chosen from: linear programming theory of games, mathematical biology, econometrics, mathematical ecology, Fourier analysis, integral equations, partial differential equations, diffusion, stochastic processes, production theory, statistical mechanics, fluid dynamics. Prerequisite: 1701.373.

**1701.595 INDEPENDENT STUDY IN MATHEMATICS (1-3)** Directed independent study in selected areas of graduate level mathematics. Prerequisite: Permission of instructor and graduate advisor.

## **COMPUTER SCIENCE COURSES (0701)**

### **Upper Division—Undergraduate and Graduate**

- 0701.335 ADVANCED BUSINESS PROGRAMMING (3)
- 0701.338 COMPUTER ORGANIZATION (3)
- 0701.339 OPERATING SYSTEMS PRINCIPLES (3)
- 0701.355 SURVEY OR PROGRAMMING LANGUAGES (3)
- 0701.367 DISCRETE STRUCTURES (3)
- 0701.401 COMPUTERS IN SECONDARY EDUCATION (3)
- 0701.411 SYSTEMS AND DESIGN (3)
- 0701.415 IMPLEMENTATION OF PROGRAMMING LANGUAGES (3)
- 0701.431 SELECTED TOPICS IN COMPUTER SCIENCE (1-3)
- 0701.437 FILE AND DATA STRUCTURES (3)
- 0701.457 DATABASE MANAGEMENT SYSTEMS (3)
- 0701.461 ARTIFICIAL INTELLIGENCE (3)
- 0701.471 COMPUTER GRAPHICS (3)



## Graduate Division

**0701.507 COMPUTERS IN SECONDARY EDUCATION (3)** This course is designed for teachers in secondary schools to acquaint them with the uses of computers at the secondary level and to present methods and materials for use of the computer in the classroom.

**0701.511 COMPUTER SIMULATION (3)** Process of modeling and simulation. Situations examined for which modeling and simulation techniques are appropriate. Prerequisites: 1701.530 and 0701.336.

**0701.513 HARDWARE AND SOFTWARE IN MICROCOMPUTERS (3)** Microcomputers including basic hardware and enhancement, software availability management. Prerequisites: 0701.336.

**0701.570-579 SPECIAL TOPICS IN COMPUTER SCIENCE (3)** Reading and study in selected topics in the field of computer science. Emphasis is on an increased knowledge of computer science. A project or paper is required. Prerequisites: 0701.336, 507, and graduate standing.

**0701.581 SEMINAR IN COMPUTER SCIENCE EDUCATION (3)** Analysis of research trends and critical issues in computer science education. Prerequisites: 0701.507.

**0701.595 INDEPENDENT STUDY IN COMPUTER SCIENCE (3)** Independent study in selected areas of Computer Science. Prerequisites: 9 hours at the graduate or upper division level.





# MODERN LANGUAGES

Chairperson: Jorge A. Giro

## FRENCH COURSES (1102)

### Upper Division—Undergraduate and Graduate

- 1102.401 FRENCH PHONETICS (3)
- 1102.402 APPLIED FRENCH LINGUISTICS (3)
- 1102.421 FRENCH LITERATURE OF THE SEVENTEENTH CENTURY (3)
- 1102.422 FRENCH LITERATURE OF THE SEVENTEENTH CENTURY II (3)
- 1102.425 FRENCH LITERATURE OF THE EIGHTEENTH CENTURY (3)
- 1102.431 FRENCH LITERATURE OF THE NINETEENTH CENTURY I (3)
- 1102.432 FRENCH LITERATURE OF THE NINETEENTH CENTURY II (3)
- 1102.437 WOMEN WRITERS IN TRANSLATION (3)
- 1102.441 FRENCH LITERATURE OF THE TWENTIETH CENTURY I (3)
- 1102.442 FRENCH LITERATURE OF THE TWENTIETH CENTURY II (3)
- 1102.451 FRENCH POETRY I (3)
- 1102.452 FRENCH POETRY II (3)
- 1102.561 FRENCH DRAMA I (3)
- 1102.462 FRENCH DRAMA II (3)
- 1102.470 SPECIAL TOPICS IN FRENCH (3)
- 1102.471 THE FRENCH NOVEL I (3)
- 1102.472 THE FRENCH NOVEL II (3)
- 1102.475 USE OF AUDIO-VISUAL TECHNIQUES IN MODERN LANGUAGE TEACHING (3)
- 1102.483 SPECIAL TOPICS IN FOREIGN LANGUAGE TEACHING (3)
- 1102.491 DIRECTED READINGS IN FRENCH LITERATURE (3)
- 1102.492 DIRECTED READINGS IN FRENCH (3)

### Graduate Division

**1102.505 ETUDES ET TRAVAUX STYLISTIQUES (3)** Practice in writing and comparison of style of various writers. Intensive and detailed textual explanation. Conducted in French. Prerequisite: Undergraduate degree in French or consent of department chairperson.

**1102.533 SEMINAR ON FRENCH CLASSICISM I (3)** The origins and underlying ideas of classicism. Classic writers. Conducted in French. Prerequisite: Undergraduate degree in French or consent of department chairperson.

**1102.534 SEMINAR ON FRENCH CLASSICISM II (3)** The origins and underlying ideas of classicism. Classic writers. Conducted in French. Prerequisite: Undergraduate degree in French or consent of department chairperson.

**1102.538 SEMINAR IN EIGHTEENTH CENTURY FRENCH LITERATURE (3)** The literature of the French Enlightenment, concentrating on one or two major authors. Conducted in French. Prerequisite: Undergraduate degree in French or consent of department chairperson.

**1102.539 THE ROMANTIC ERA IN FRANCE (3)** Sources and theories of romanticism. Works of major French romantic writers. Conducted in French. Prerequisite: Undergraduate degree in French or consent of department chairperson.

### **1102.543-544 PERSPECTIVE DE LA CRITIQUE LITTERAIRE EN FRANCE**

**(3)** A history of French literary criticism leading to the study of the various techniques and objectives of all literary criticism and analysis, ending in the application of these techniques by the student himself to selected works of French literature. Conducted in French. Prerequisite: Undergraduate degree in French or consent of department chairperson.

### **1102.571 SPECIAL TOPICS IN FRENCH LANGUAGE, LITERATURE AND CIVILIZATION**

**(3)** Grandes Mouvements Littéraires en France du XIX et XX Siecles. Prerequisites: Undergraduate degree in French or consent of department chairperson.

## **GERMAN COURSES (1103)**

### **Upper Division—Undergraduate and Graduate**

- 1103.401 GERMAN PHONETICS (3)
- 1103.427- CLASSICISM I, II (3)
- 1103.431 ROMANTICISM (3)
- 1103.441 MODERN GERMAN LITERATURE (3)
- 1103.451 STUDIES IN THE GERMAN LYRIC (3)
- 1103.461 GERMAN DRAMA OF THE NINETEENTH AND TWENTIETH CENTURIES (3)
- 1103.465 GOETHE'S FAUST (3)
- 1103.470 SPECIAL TOPICS IN GERMAN (3)
- 1103.481 THE GERMAN NOVEL (3)
- 1103.483 SPECIAL TOPICS IN FOREIGN LANGUAGE TEACHING (3)
- 1103.491 DIRECTED READINGS IN GERMAN LITERATURE (3)
- 1103.492 DIRECTED READINGS IN GERMAN LITERATURE (3)

## **SPANISH COURSE (1105)**

### **Upper Division—Undergraduate and Graduate**

- 1105.401 SPANISH PHONETICS (3)
- 1105.402 SPANISH LINGUISTICS (3)
- 1105.417- THE GOLDEN AGE OF SPANISH  
.418 LITERATURE I, II (3)
- 1105.431 NINETEENTH-CENTURY SPANISH LITERATURE (3)
- 1105.435 NINETEENTH-CENTURY SPANISH-AMERICAN LITERATURE I (3)
- 1105.436 NINETEENTH-CENTURY SPANISH-AMERICAN LITERATURE II (3)
- 1105.437 ROMANTICISM IN SPANISH AMERICAN LITERATURE (3)
- 1105.441 TWENTIETH-CENTURY SPANISH LITERATURE I (3)
- 1105.442 TWENTIETH-CENTURY SPANISH LITERATURE II (3)
- 1105.443 TWENTIETH-CENTURY SPANISH-AMERICAN LITERATURE I (3)
- 1105.444 TWENTIETH-CENTURY SPANISH-AMERICAN LITERATURE II (3)
- 1105.451 SPANISH POETRY I (3)
- 1105.452 SPANISH POETRY II (3)
- 1105.461 SPANISH DRAMA I (3)
- 1105.462 SPANISH DRAMA II (3)
- 1105.470 SPECIAL TOPICS IN SPANISH (3)
- 1105.471 SPANISH NOVEL I (3)
- 1105.472 SPANISH NOVEL II (3)
- 1105.481 SPANISH SHORT STORY (3)

- 1105.483 SPECIAL TOPICS IN FOREIGN LANGUAGE TEACHING (3)  
1105.491 DIRECTED READING IN SPANISH LITERATURE (3)  
1105.492 DIRECTED READING IN SPANISH (3)

**Graduate Division**

**1105.505 SPANISH STYLISTICS (3)** Intensive and detailed analysis of selected texts. Prerequisite: Undergraduate degree in Spanish or consent of department chairperson.

**1105.536 POETRY AND DRAMA OF THE SPANISH GOLDEN AGE (3)** Graduate study of major writers of the Siglo de Oro. Conducted in Spanish. Prerequisite: Undergraduate degree in Spanish or consent of department chairperson.

**1105.553 MIGUEL DE CERVANTES (3)** Don Quijote de la Mancha and the Novelas Ejemplares, reading and detailed analysis. Prerequisite: Undergraduate degree in Spanish or consent of department chairperson.

**1105.570 SPECIAL TOPICS IN SPANISH (3)** Discussion of a central topic with changing emphasis from year to year. Prerequisite: Undergraduate degree in Spanish or consent of department chairperson.

**1105.585 SEMINAR IN MODERN LITERATURE (3)** Discussion of a figure or topic in modern Spanish or Spanish-American. Prerequisite: Undergraduate degree Spanish or consent of department chairperson.



# MUSIC

Chairperson: David Marchand

Graduate departmental Coordinator, Music Education Program:

Clifford D. Alper

## MUSIC COURSES (MUSIC 1005; MUSIC APPLIED 1004; MUSIC EDUCATION 0832)

### Upper Division—Undergraduate and Graduate

- 1004.471-72 BRASS PRIVATE LESSONS (1-3)
- 1004.473-74 ORGAN PRIVATE LESSONS (1-3)
- 1004.475-76 PERCUSSION PRIVATE LESSONS (1-3)
- 1004.477-78 PIANO PRIVATE LESSONS (1-3)
- 1004.479-80 STRING PRIVATE LESSONS (1-3)
- 1004.481-82 VOICE PRIVATE LESSONS (1-3)
- 1004.483-84 WOODWIND PRIVATE LESSONS
- 1004.485-86 GUITAR PRIVATE LESSONS (1-3)
- 1004.487-88 COMPOSITION PRIVATE LESSONS (1-3)

### Graduate Division

**1004.571-472 BRASS PRIVATE LESSONS (1-3)** Fee of \$50.00 per semester per credit. One half-hour lesson per week. May be repeated for further credit. Prerequisite: Consent of department chairperson.

**1004.573-574 ORGAN PRIVATE LESSONS (1-3)** Fee of \$50.00 per semester credit. One half-hour lesson per week. May be repeated for further credit. Prerequisite: Consent of department chairperson.

**1004.575-576 PERCUSSION PRIVATE LESSONS (1-3)** Fee of \$50.00 per semester per credit. One half-hour lesson per week. May be repeated for further credit. Prerequisite: Consent of department chairperson.

**1004.577-578 PIANO PRIVATE LESSONS (1-3)** Fee of \$50.00 per semester per credit. One half-hour lesson per week. May be repeated for further credit. Prerequisite: consent of department chairperson.

**1004.579-580 STRING PRIVATE LESSONS (1-3)** Fee of \$50.00 per semester per credit. One half-hour lesson per week. May be repeated for further credit. Prerequisite: Consent of department chairperson.

**1004.581-582 VOICE PRIVATE LESSONS (1-3)** Fee of \$50.00 per semester per credit. One half-hour lesson per week. May be repeated for further credit. Prerequisite: Consent of department chairperson.

**1004.583-584 WOODWIND PRIVATE LESSONS (1-3)** Fee of \$50.00 per semester per credit. One half-hour lesson per week. May be repeated for further credit. Prerequisite: Consent of department chairperson.

**1004.585-586 GUITAR PRIVATE LESSONS (1-3)** Fee of \$50.00 per semester per credit. One half-hour lesson per week. May be repeated for further credit. Prerequisite: Consent of department chairperson.

**1004.587-588 COMPOSITION PRIVATE LESSONS (1-3)** Fee of \$50.00 per semester per credit. One half-hour lesson per week. May be repeated for further credit. Prerequisite: Consent of department chairperson.

**1004.589-590 HARPSICHORD PRIVATE LESSONS (1-2)** Fee of \$50.00 per semester per credit. One half-hour lesson per week. May be repeated for further credit. Prerequisite: Consent of department chairperson.



## Upper Division — Undergraduate and Graduate

- 1005.401 MUSIC PRIOR TO 1600 (3)
- 1005.402 MUSIC OF THE BAROQUE PERIOD (3)
- 1005.403 MUSIC OF THE CLASSICAL PERIOD (3)
- 1005.404 MUSIC OF THE ROMANTIC PERIOD (3)
- 1005.405 CONTEMPORARY MUSIC (3)
- 1005.406 SURVEY OF SOLO VOICE LITERATURE (3)
- 1005.407 TONAL COUNTERPOINT (3)
- 1005.408 MODAL COUNTERPOINT (3)
- 1005.409 HISTORY AND LITERATURE OF GUITAR, LUTE AND VIHUELA (3)
- 1005.410 WORKSHOP IN CLASS PIANO PEDAGOGY (2)
- 1005.411 SURVEY OF OPERA (3)
- 1005.412 WIND ENSEMBLE (1)
- 1005.413 SYMPHONIC LITERATURE (3)
- 1005.415 THE CONCERTO (3)
- 1005.417 PIANO LITERATURE (3)
- 1005.418 WORKSHOP IN CLASS PIANO PEDAGOGY (2)
- 1005.420 WORKSHOP IN MUSIC INSTRUMENT REPAIR AND MAINTENANCE (1)
- 1005.421 AMERICAN MUSIC (3)
- 1005.427-428 JAZZ ARRANGING I, II (3, 3)
- 1005.429-430 JAZZ IMPROVISATION I, II (3, 3)
- 1005.431 ADVANCED CHORAL AND INSTRUMENTAL ARRANGING (3)
- 1005.432 SEMINAR IN ADVANCED INSTRUMENTAL CONDUCTING AND INTERPRETATION (1)
- 1005.435 FORM AND ANALYSIS (3)
- 1005.449-450 STRING ENSEMBLE (1, 1)
- 1005.459-460 TOWSON STATE UNIVERSITY CHORAL SOCIETY (1, 1)
- 1005.467-468 ORCHESTRA (1, 1)
- 1005.469-470 SYMPHONY BAND (1, 1)
- 1005.471-479 SPECIAL TOPICS IN MUSIC LITERATURE (3)
- 1005.493 INDEPENDENT RESEARCH IN MUSIC LITERATURE (3)

## Graduate Division

**1005.501 ADVANCED OPERA WORKSHOP (1)** Advanced techniques of stage movement and related aspects of opera production. Optional programs will be designed specifically for singers, conductors, stage directors and accompanist/coaches. Prerequisites: Opera Workshop experience or equivalent proficiency level. Audition required.

**1005.531 ADVANCED THEORY (3)** Continued development of skills in more advanced melodic, harmonic and rhythmic aspects of music through hearing, playing and writing. Prerequisite: 1005.232.

**1005.533 ADVANCED WOODWINDS (DOUBLE REEDS) (3)** Study of advanced techniques on bassoon and oboe. Special emphasis given to reed-making and instrument repair. Prerequisites: 1005.223 or consent of instructor.

**1005.539 MUSIC COMPOSITION (3)** Analysis and discussion of works of major composers. Writing of original compositions in vocal and instrumental idioms. Prerequisite: 1905.232, 1905.335, 1905.435.



**1005.562 SEMINAR IN CHORAL (VOCAL) MUSIC (3)** Comparative analysis of current methods and materials used in schools and colleges. Choral conducting and repertoire. Style interpretation, tone quality diction, rehearsal and conducting techniques are analyzed. Prerequisite: Consent of department chairperson.

**1005.570-579 SPECIAL TOPICS IN MUSIC (3)** In-depth study of a selected topic in music. Specific requirements and prerequisites will vary with each topic and will be designated by the department each time a topic is scheduled. Approval by the graduate advisor is required. Each topic may be taken as a separate course. Prerequisites: Graduate standing.

**1005.595 RESEARCH METHODS IN MUSIC AND MUSIC EDUCATION (3)** The application of methods of research to problems in the field of music and music education, the preparation of bibliographies and specialized techniques for the location, collection and treatment of data and a written exposition of research projects in the area of the student's major interest. Prerequisite: Consent of department chairperson.

**1005.797 GRADUATE PROJECT IN MUSIC (3)** Thesis project includes graduate recital or musical composition instead of thesis.

**1005.798 MASTER'S THESIS IN MUSIC (3)**

**1005.799 THESIS CONTINUUM (1)**

#### Minimester only

**1005.002 EDITING BRASS MUSIC: RENAISSANCE AND BAROQUE (3)**

**1005.007 WORKSHOP: ASPECTS OF TROMBONE PERFORMANCE (1)**

#### Music Education Courses (0832)

**0832.002 AN INTRODUCTION TO THE KODALY APPROACH TO TEACHING MUSIC IN THE ELEMENTARY SCHOOL (3)**

**0832.408 ORGANIZATION AND ADMINISTRATION OF MUSIC EDUCATION (3)**

**0832.417 CHORAL WORKSHOP IN ELEMENTARY & SECONDARY SCHOOL MUSIC (2)**

**0832.419 WORKSHOP: ASPECTS OF STRING TEACHING (3)**

**0832.421 WORKSHOP: TEACHING GUITAR IN THE CLASSROOM (2)**

**0832.439 ADVANCED WORKSHOP IN ELEMENTARY AND JUNIOR HIGH SCHOOL GENERAL MUSIC (2)**

#### Graduate Division

**0832.501 SEMINAR IN CURRENT TRENDS IN MUSIC AND MUSIC EDUCATION (3)** Current philosophies and objectives of music scope and sequence of music curricula (vocal and instrumental) in our schools. Prerequisites: Consent of department chairperson.

**0832.503 MUSIC IN SPECIAL EDUCATION (3)** Musical curriculum materials and activities addressing the needs of handicapped students in school settings. Teacher skill development in adapting lesson plans, developing Individual Education Programs and program implementation. Prerequisites: 0832.307 or 0832.309 or permission of chairperson.

# OCCUPATIONAL THERAPY

Chairperson: Marie-Louise Blount

Graduate Departmental Coordinator, Occupational Therapy Program:

Bette R. Border

## OCCUPATIONAL THERAPY (1208)

**1208.428 O.T. ORGANIZATION, ADMINISTRATION, AND TEACHING (3)**

**1208.470-479 SPECIAL TOPICS IN OCCUPATIONAL THERAPY (1-3)**

### Graduate Division

**1208.501 THEORY AND PRACTICE OF PSYCHOSOCIAL OCCUPATIONAL THERAPY (3)** Psychosocial theories underlying the practice of occupational therapy; current and projected models of clinical practice. Prerequisite: Permission of instructor.

**1208.503 ISSUES IN OCCUPATIONAL THERAPY (3)** Analysis of current issues in occupational therapy. Prerequisite: Admission to Occupational Therapy Master's program.

**1208.511 ADVANCED OCCUPATIONAL THERAPY THEORY AND PHILOSOPHY (3)** Theory and philosophy of occupational therapy. Prerequisite: Admission to Occupational Therapy Master's program.

**1208.513 ADVANCED RESEARCH METHODS IN OCCUPATIONAL THERAPY (3)** Examination of exploratory, descriptive survey, and experiential research methods as they have and can be used in Occupational Therapy. Prerequisites: Admission to Occupational Therapy Master's program; course in statistics.

**1208.521 ASSESSMENT TECHNIQUES IN GERONTIC OCCUPATIONAL THERAPY (3)** Theory and practice of needs assessment and evaluation in gerontic occupational therapy. Prerequisite: Consent of instructor.

**1208.523 ASSESSMENT IN PEDIATRIC OCCUPATIONAL THERAPY (3)** Theory and practice of evaluation in the area of pediatric Occupational Therapy. Prerequisites: Consent of instructor.

**1208.570-579 SPECIAL TOPICS IN OCCUPATIONAL THERAPY (1-3)** Study of selected topics in Occupational Therapy. Prerequisites: Vary with each topic, consent of instructor.

**1208.591 DIRECTED READINGS IN OCCUPATIONAL THERAPY (1-3)** Occupational therapy instructor. Prerequisite: Graduate standing.

# PHILOSOPHY AND RELIGION

Chairperson: Arthur Madden

## PHILOSOPHY AND RELIGION COURSES (1509)

### Upper Division—Undergraduate and Graduate

**1509.301 PHILOSOPHIES OF INDIA (3)**

**1509.302 PHILOSOPHIES OF CHINA AND JAPAN (3)**

**1509.315 ARCHAEOLOGY OF PALESTINE AND TRANS-JORDANIA (3)**

- 1509.317 THE HISTORICAL GEOGRAPHY AND ARCHAEOLOGY OF PALESTINE (3)
- 1509.322 LATE CLASSICAL AND MEDIEVAL PHILOSOPHY (3)
- 1509.323 LATE CLASSICAL AND RENAISSANCE PHILOSOPHY (3)
- 1509.324 MODERN PHILOSOPHY (3)
- 1509.325 SCHOOLS OF CONTEMPORARY PHILOSOPHY (3)
- 1509.326 AMERICAN PHILOSOPHY (3)
- 1509.331 CONCEPTS OF WOMAN: A HISTORICAL APPROACH (3)
- 1509.339 THEORY OF KNOWLEDGE (3)
- 1509.341 ETHICS (3)
- 1509.343 AESTHETICS (3)
- 1509.351 CONTEMPORARY ETHICAL PROBLEMS (3)
- 1509.354 INTERPRETATIONS OF THE BIBLE: OLD TESTAMENT (3)
- 1509.355 INTERPRETATIONS OF THE BIBLE: NEW TESTAMENT (3)
- 1509.361 ETHICS OF MEDICINE AND THE LIFE SCIENCES (3)
- 1509.371 CONTEMPORARY ETHICAL PROBLEMS: BUSINESS AND SOCIETY (3)
- 1509.380- PHILOSOPHICAL TOPICS (3)
- .389
- 1509.413 PHENOMENOLOGY (3)
- 1509.415 MARXISM (3)
- 1509.417 EXISTENTIALISM (3)
- 1509.440- PHILOSOPHICAL SYSTEMS (3-3)
- .449
- 1509.451 PHILOSOPHY OF RELIGION (3)
- 1509.457 COMPARATIVE RELIGION I (3)
- 1509.458 COMPARATIVE RELIGION II (3)
- 1509.470- PHILOSOPHICAL PROBLEMS (3-3)
- .479

## PHYSICAL EDUCATION

Chairperson: Robert G. Zeigler

### PHYSICAL EDUCATION COURSES (0835)

#### Upper Division—Undergraduate and Graduate

- 0835.311 KINESIOLOGY (3)
- 0835.313 PHYSIOLOGY OF EXERCISE (3)
- 0835.412 THEORY AND ANALYSIS OF GYMNASTICS MOVEMENT (3)
- 0835.415 ADVANCED CARE AND PREVENTION OF ATHLETIC INJURIES (3)
- 0835.419 SWIMMING AND POOL MANAGEMENT (3)
- 0835.421 PHYSICAL EDUCATION PROGRAM IN THE ELEMENTARY SCHOOLS (3)
- 0835.423 ADAPTIVE PHYSICAL EDUCATION (3)
- 0835.425 TEACHING DANCE IN GRADES K-12 (3)
- 0835.427 PERCEPTUAL—MOTOR DEVELOPMENT IN PHYSICAL EDUCATION (3)
- 0835.430 MOVEMENT EDUCATION IN THE ELEMENTARY SCHOOL (3)
- 0835.435 PROGRAMS IN OUTDOOR EDUCATION (3)
- 0835.441 THE SPORTSWOMAN IN AMERICAN SOCIETY (3)
- 0835.451 HISTORY OF AMERICAN SPORT (3)

- 0835.453 ORGANIZATION AND ADMINISTRATION OF ATHLETICS (3)  
 0835.470- SELECTED TOPICS IN  
 .479 PHYSICAL EDUCATION (1-3)  
 0835.494 TRAVEL STUDY (3)  
 0835.496 INDEPENDENT STUDY (3)

#### Graduate Division

**0835.509 PSYCHOLOGY OF MOTOR LEARNING (3)** Psychological factors affecting the acquisition of motor skills, emphasis on methodology. Prerequisites: Undergraduate degree in physical education and consent of graduate coordinator.

**0835.512 SIGNIFICANT PERIODS IN PHYSICAL EDUCATION (3)** Influence of Greek, Roman, European, and English concepts of physical education upon the formation and development of American concepts of physical education. Prerequisites: Undergraduate degree in physical education and consent of graduate coordinator.

**0835.513 ANALYSIS OF PHYSIOLOGICAL CONCEPTS (3)** Analysis of research and laboratory application of the physiological factors that affect human efficiency before, during and after exercise. Such as: metabolism, circulation-respiration, muscular physiology, endocrine system, ergogenic aids, and environmental factors. Prerequisites: Undergraduate degree in physical education and consent of graduate coordinator.

**0835.521 EDUCATIONAL GYMNASTICS (3)** Theoretical and historical basis for problem-solving and individualized methods in teaching gymnastic movement. Prerequisites: Undergraduate major in physical education, and consent of graduate coordinator.

**0835.530 MECHANICAL ANALYSIS OF MOVEMENT (3)** Research and mechanical principles are analyzed relating to efficient human movement. Physical laws of leverage, motion, projectiles, gravity, buoyancy, and equilibrium. Prerequisites: 0835.311, undergraduate degree in physical education, consent of graduate coordinator.

**0835.533 ADMINISTRATION AND SUPERVISION OF PHYSICAL EDUCATION (3)** Administration and supervision of programs of physical education. Problems of personnel, program, facilities, and evaluation. Prerequisites: Undergraduate degree in physical education and consent of graduate coordinator.

**0835.539 CRITICAL ANALYSIS OF CURRENT LITERATURE IN PHYSICAL EDUCATION (3)** Investigation and assessment of the physical education profession: contemporary leaders, books, journals, periodicals, projects, trends, issues, and innovations. Prerequisites: Undergraduate degree in physical education and consent of graduate coordinator.

**0835.541 EVALUATIVE TECHNIQUES IN PHYSICAL EDUCATION (3)** Administration, assessment, and interpretation of measurements of classification indexes, power, agility, balance, flexibility, kinesthetic perception, speed and reaction time, strength, muscular endurance, cardiovascular conditions, and sport skills. Prerequisites: Undergraduate degree in physical education and consent of graduate coordinator.



**0835.545 FACILITIES AND EQUIPMENT FOR PHYSICAL EDUCATION (3)** Principles of programming and planning facilities for physical education. Selection, purchase and care of equipment. Prerequisites: Undergraduate degree in physical education and consent of graduate coordinator.

**0835.551 COMPARATIVE PHYSICAL EDUCATION—CONTEMPORARY AND INTERNATIONAL (3)** Analysis of patterns of physical education in selected countries throughout the world. Prerequisites: Undergraduate major in physical education and consent of graduate coordinator.

**0835.553 CONTEMPORARY PHYSICAL EDUCATION CURRICULUM (3)** Aims, objectives, content, and methods in curriculum design for elementary and secondary school physical education. Prerequisites: Undergraduate degree in physical education and consent of graduate coordinator.

**0835.561 OUTDOOR LEISURE (3)** Man and leisure in a changing society and their impact on the natural environment. Development of outdoor recreation and adventure skill interest, teaching and leadership techniques. Prerequisites: Undergraduate degree in physical education and consent of graduate coordinator.

**0835.570 SELECTED TOPICS IN PHYSICAL EDUCATION (1-3)** The course will focus on an indepth study of selected topics in sport and physical education. Content will vary and will focus on current research and/or relevant sport and physical education concerns. The specific requirements and prerequisites will vary with each topic. Prerequisite: Approval by the Department Graduate Coordinator.

**0835.585 RESEARCH SEMINAR (3)** Research on a problem through consultation with designated faculty members. Prerequisites: EDUC 0801.691, undergraduate degree in physical education and consent of graduate coordinator.



# PHYSICS

Chairperson: Eddie Loh

## PHYSICAL SCIENCE COURSES (1901)

### Upper Division—Undergraduate and Graduate

- 1901.303 EARTH-SPACE SCIENCE IN CHILDHOOD EDUCATION (3)
- 1901.321 STRUCTURAL GEOLOGY (3)
- 1901.322 GEOMORPHOLOGY OF THE EASTERN UNITED STATES (3)
- 1901.331 MINEROLOGY (4)
- 1901.333 PETROLOGY OF IGNEOUS AND METAMORPHIC ROCKS (4)
- 1901.335 LASER AND HOLOGRAPHY (3)
- 1901.401 ADVANCED LABORATORY IN PHYSICAL SCIENCE (2)
- 1901.405 FUNDAMENTAL CONCEPTS IN THE EARTH SCIENCES (3)
- 1901.411 PHYSICAL SCIENCE FOR TEACHERS (3)
- 1901.441 OPTICAL MINEROLOGY AND PETROGRAPHY (3)
- 1901.443 SEDIMENTOLOGY AND SEDIMENTARY PETROLOGY (3)
- 1901.470-479 SPECIAL TOPICS IN PHYSICAL SCIENCE (1-4)
- 1901.495 COURSE RESEARCH IN 400-LEVEL COURSES

## PHYSICS COURSES (1902)

### Upper Division—Undergraduate and Graduate

- 1902.301 MECHANICS (4)
- 1902.302 THERMODYNAMICS AND KINETIC THEORY (3)
- 1902.305 ELECTRICITY AND MAGNETISM (4)
- 1902.311 MODERN PHYSICS (4)
- 1902.313 HISTORY AND PHILOSOPHY OF PHYSICS (2)
- 1902.315 MATHEMATICS OF MOTION (4)
- 1902.321 INTRODUCTORY MATHEMATICAL PHYSICS (3)
- 1902.331 MECHANICS II (4)
- 1902.335 BASIC ELECTRONICS (4)
- 1902.337 DIGITAL ELECTRONICS (4)
- 1902.381 INTERMEDIATE PHYSICS LABORATORY I (2)
- 1902.382 INTERMEDIATE PHYSICS LABORATORY II (2)
- 1902.395 COURSE RESEARCH IN 300-LEVEL COURSES
- 1902.401 PHYSICS SEMINAR I-II (1-1)
- 1902.402
- 1902.411 PHYSICAL OPTICS (3)
- 1902.435 ELECTRONICS (3)
- 1902.437 INTRODUCTION TO MICROPROCESSOR-BASED DIGITAL SYSTEM (3)
- 1902.451 NUCLEAR PHYSICS (3)
- 1902.471 INTRODUCTORY QUANTUM MECHANICS (3)
- 1902.472 INTRODUCTION TO STATISTICAL MECHANICS (3)
- 1902.490 INDEPENDENT STUDY IN PHYSICS (1-4)
- 1902.491 DIRECTED READINGS (1-4)

## SCIENCE EDUCATION COURSES (0834)

### Upper Division—Undergraduate and Graduate

- 0834.371 TEACHING SCIENCE IN EARLY CHILDHOOD (2)
- 0834.376 TEACHING SCIENCE IN THE ELEMENTARY SCHOOL (3)
- 0834.380 TEACHING SCIENCE IN THE SECONDARY SCHOOL (3)

- 0834.470- SEQUENTIAL SCIENCE MODULES FOR THE  
 .475 ELEMENTARY SCHOOL TEACHER (1-3)  
 0834.488 AEROSPACE EDUCATION WORKSHOP (3)

#### Graduate Division

**0834.585 SEMINAR IN ELEMENTARY SCHOOL SCIENCE (3)** Practices and trends in organizing, teaching, and improving programs in elementary school science. Prerequisite: Elementary teaching.

## POLITICAL SCIENCE

Chairperson: Pritam Merani

### POLITICAL SCIENCE COURSES (2207)

#### Upper Division—Undergraduate and Graduate

- 2207.303 THEORY OF INTERNATIONAL POLITICS (3)  
 2207.305 URBAN GOVERNMENT AND POLITICS (3)  
 2207.307 CONTEMPORARY INTERNATIONAL POLITICS (3)  
 2207.337 COMPARATIVE GOVERNMENT OF FOREIGN POWERS:  
 THE WESTERN WORLD (3)  
 2207.338 COMPARATIVE GOVERNMENT OF FOREIGN POWERS:  
 RUSSIA AND THE EAST (3)  
 2207.339 COMPARATIVE POLITICAL SYSTEMS (3)  
 2207.341 AFRICAN GOVERNMENT AND POLITICS (3)  
 2207.351 THE GOVERNMENT AND POLITICS OF LATIN AMERICA (3)  
 2207.355 THE LATIN AMERICAN POLICY OF THE UNITED STATES (3)  
 2207.359 POLITICAL AND SOCIAL ASPECTS OF REVOLUTION (3)  
 2207.361 POLITICAL BEHAVIOR (3)  
 2207.375 PUBLIC ADMINISTRATION (3)  
 2207.381 THE PRESIDENCY (3)  
 2207.383 CONGRESS (3)  
 2207.401 INTRODUCTION TO LAW (3)  
 2207.417 AMERICAN POLITICAL PARTIES (3)  
 2207.418 CONSTITUTIONAL LAW (3)  
 2207.427 POLITICAL THEORY (2)  
 2207.428 POLITICAL THEORY II (3)  
 2207.430 POLITICAL IDEAS OF SOCIALISM AND COMMUNISM (3)  
 2207.432 UNITED STATES—SOVIET RELATIONS (3)  
 2207.435 AFRICA IN WORLD POLITICS (3)  
 2207.437 CASTRO AND THE CUBAN REVOLUTION (3)  
 2207.439 UNITED STATES FOREIGN POLICY IN SOUTHEAST ASIA (3)  
 2207.441 CONTEMPORARY UNITED STATES-WESTERN EUROPEAN  
 RELATIONS (3)  
 2207.445 UNITED STATES FOREIGN POLICY IN SOUTH ASIA (3)  
 2207.450 GROUP POLITICS AND PUBLIC OPINION (3)  
 2207.455- INTERNATIONAL LAW AND ORGANIZATION I, II (3-3)  
 .456  
 2207.457 USE OF FORCE IN INTERNATIONAL LAW (3)  
 2207.461 RESEARCH METHODS IN POLITICAL BEHAVIOR (3)  
 2207.463 SCOPE AND METHODS OF POLITICAL SCIENCE (3)  
 2207.465 EDITORIAL WORK—TOWSON STATE JOURNAL OF INTER-  
 NATIONAL AFFAIRS (1)

- 2207.470-479 SPECIAL TOPICS IN POLITICAL SCIENCE (3)  
 2207.482 SEMINAR IN POLITICAL SCIENCE (3)  
 2207.483 SEMINAR: POLITICS AND THE NEWS MEDIA (3)  
 2207.484 SEMINAR: POLITICS AND THE BUDGETARY PROCESS (3)  
 2207.485 DEMOCRATIC THEORY SEMINAR (3)  
 2207.490 INDEPENDENT STUDY (3)  
 2207.491 SEMINAR IN CONTEMPORARY UNITED STATES FOREIGN POLICY (3)  
 2207.493 PRACTICUM IN POLITICS (3-9)

## PSYCHOLOGY

Chairperson: Herbert Petri

Graduate Departmental Coordinator: Anthony DiCesare

### PSYCHOLOGY COURSES (2001)

#### Upper Division—Undergraduate and Graduate

- 2001.305 PSYCHOLOGY OF LEARNING (3)  
 2001.309 BEHAVIORAL PHARMACOLOGY (3)  
 2001.311 BEHAVIOR MODIFICATION (3)  
 2001.315 MOTIVATION (3)  
 2001.317 SENSATION AND PERCEPTION (3)  
 2001.323 PSYCHOLOGY OF WOMEN: SEX DIFFERENCES AND SIMILARITIES (3)  
 2001.325 SOCIAL PSYCHOLOGY (3)  
 2001.330 PSYCHOLOGY OF INDIVIDUAL DIFFERENCES (3)  
 2001.341 ENVIRONMENTAL PSYCHOLOGY (3)  
 2001.350 PERSONALITY (3)  
 2001.361 ABNORMAL PSYCHOLOGY (3)  
 2001.381 READINGS IN PSYCHOLOGY (1-2)  
 2001.385 SEMINAR IN PSYCHOLOGY (1-3)  
 2001.403 PSYCHOLOGY OF INFANCY AND CHILDHOOD (3)  
 2001.404 ADOLESCENT PSYCHOLOGY (3)  
 2001.405 THE PSYCHOLOGY OF AGING (3)  
 2001.407 PSYCHOLOGY OF READING (3)  
 2001.409 ORGANIZATIONAL PSYCHOLOGY (3)  
 2001.411 TESTS AND MEASUREMENT (3)  
 2001.416 PERSONALITY MEASUREMENT (3)  
 2001.421 APPLICATIONS OF BEHAVIORAL PRINCIPLES TO FAMILY AND CLASSROOM ENVIRONMENTS (3)  
 2001.427 INTRODUCTION TO INTERVIEWING TECHNIQUES I (3)  
 2001.428 INTERVIEWING TECHNIQUES II (3)  
 2001.429 INTRODUCTION TO THE COUNSELING OF MINORITY GROUPS (3)  
 2001.431 GROUP DYNAMICS (3)  
 2001.435 SUPERVISED FIELD EXPERIENCE 93-6)  
 2001.439 THE INITIAL INTERVIEW (3)  
 2001.441 INFORMATION SERVICE IN COUNSELING AND GUIDANCE (3)  
 2001.453 ISSUES IN MENTAL HEALTH INTERVENTION (2)  
 2001.460 COMPARATIVE PSYCHOLOGY (3)  
 2001.461 COGNITIVE PSYCHOLOGY (3)  
 2001.462 LABORATORY IN COMPARATIVE PSYCHOLOGY (3)



- 2001.465 PHYSIOLOGICAL PSYCHOLOGY (3)
- 2001.466 LABORATORY IN PHYSIOLOGICAL PSYCHOLOGY (2)
- 2001.467 ADULT PSYCHOLOGY (3)
- 2001.471 INTRODUCTION TO THE EXCEPTIONAL CHILD (3)
- 2001.480 SYSTEMS OF PSYCHOLOGY (3)
- 2001.485 EXPERIMENTAL DESIGN (4)
- 2001.491 INDEPENDENT INVESTIGATION IN PSYCHOLOGY (3)

**Minimester only**

**2001.501 SEXUAL COUNSELING (3)** Human sexual relationships, with emphasis on social and sexual problems and new treatment techniques for sexual dysfunction. Prerequisites: Psychology, health science, or nursing major or consent of the department.

**Graduate**

**2001.503 HUMAN LEARNING (3)** Aspects of learning applicable specifically to human behavior including topics such as acquisition, memory, problem solving, creativity and language. Topics discussed within a framework of historic and current theoretical research perspectives. Prerequisites: 2001.305.

**2001.505 COUNSELING TECHNIQUES (3)** Counseling skills essential in facilitating client self awareness. Training the student in practical skills through demonstration and role playing with feedback in behavioral performance.

**2001.507 APPLIED THEORIES OF COUNSELING (3)** Those counseling theorists whose applied methodology has been successful in the treatment of various client population. Techniques and application of methodologies in field settings.

**2001.509 COUNSELING PSYCHOLOGY—PRE-PRACTICUM (3)** Ethics, issues, and history of counseling psychology. Counseling with children and adults, various points of view, techniques for introducing therapeutic movement, and the essentials necessary for effective counseling. Prerequisite: Must be a psychology major planning to enter one of the helping professions or a graduate student in counseling, or have consent of the counseling program coordinator.

**2001.511 DEVELOPMENTAL PSYCHOLOGY (3)** Psychological structures and functions in human development. Theoretical and research approaches. Prerequisite: 2001.201 or equivalent.

**2001.513 COMMUNITY MENTAL HEALTH COUNSELING (3)** Types of community health services and the relationships between those services; the responsibility of counseling in a mental health center; and the area of mental health consultant. Emphasis will be given to the application of counseling skills in a mental health setting (pre-practicum). Prerequisites: Graduate standing in counseling.

**2001.515 INTRODUCTION TO RESEARCH METHODS IN COUNSELING (3)** Principal methods of behavioral research emphasizing concepts rather than statistical procedures. Preparation of counselors to evaluate methods, designs, and results of counseling research. Prerequisite: Graduate standing in counseling.

**2001.520 PSYCHODIAGNOSTICS I: INTELLIGENCE (3)** Construction-standardization, administration, scoring and interpretation of the Weschler and Stanford-Binet scales, Bender Gestalt, Human Figure Drawings, and appropriate achievement tests. Prerequisites: Clinical psychology and consent of coordinator.

**2001.521 ADVANCED EDUCATIONAL PSYCHOLOGY (3)** Survey of current research in child psychology, learning, mental hygiene, and tests and measurements. Emphasis on critical analysis of studies. Prerequisite: 2001.511

**2001.525 BEHAVIORAL TECHNIQUES (3)** Application of behavioral strategies to children in home and school settings. Consultation stressed. Prerequisites: Matriculation in graduate program in Psychology, consent of coordinator of School Psychology.

**2001.531 ADVANCED ABNORMAL PSYCHOLOGY (3)** Current and historical perspectives of psychopathology. Emphasis on varied approaches in contemporary schools. Prerequisite: 2001.361.

**2001.540 MENTAL HYGIENE IN EDUCATION (3)** Principles of mental hygiene and their application to the educational setting. Emphasis on personality development. Prerequisite: 2001.511.

**2001.543 INTRODUCTION TO SCHOOL PSYCHOLOGY (1)** Ethics and issues in school psychology. Prerequisites: Graduate standing in school psychology and consent of coordinator.

**2001.545 COPING STRATEGIES IN THE CLASSROOM (3)** Application of psychological principles and concepts as they relate directly to the classroom. Development of awareness of teacher impact on the classroom members with specific emphasis on individual differences. Open to teachers, counselors and administrators. Prerequisite: 1001.551.

**2001.550 DIAGNOSTIC TECHNIQUES IN EDUCATION (3)** Use of standardized and teacher-constructed instruments for diagnostic and instructional purposes. Prerequisite: 2001.511, 2001.411 or equivalent.

**2001.551 TECHNIQUES OF INTERVENTION (3)** Group and individual intervention strategies. Prerequisites: Matriculation in school, clinical or counseling psychology and consent of coordinator.

**2001.553 RESEARCH ISSUES IN SCHOOL/CLINICAL PSYCHOLOGY (3)** Analysis of major issues in school and/or clinical psychology. Prerequisites: 2001.111, graduate standing in school or clinical psychology and consent of coordinator.

**2001.555 LEARNING DISABILITIES I: ASSESSMENT (3)** Theoretical issues and assessment of learning disabilities in school aged children. Prerequisites: Matriculation in school psychology track, and consent of coordinator.

**2001.557 LEARNING DISABILITIES II: REMEDIATION (3)** Intervention strategies and consultation in the schools. Prerequisites: Matriculation in school psychology track, 2001.555.

**2001.561 FOUNDATIONS OF REHABILITATION COUNSELING (3)** Development of rehabilitation programs; their legal basis and historical background. Roles of medical, psychological, educational and community resources in the rehabilitation program included. Client eligibility, determination, and counselor responsibilities will be reviewed. Prerequisite: 2001.101

**2001.563 SYSTEMS OF PSYCHOTHERAPY (3)** Prominent schools of psychotherapy, emphasis on the psychotherapeutic aspect of education and clinical settings. Prerequisites: 2001.350, 2001.361, 94 2001.230, 2001.531.

**2001.565 PSYCHOTHERAPY AND BEHAVIOR CHANGE I (3)** First of two semester sequence. Readings, lectures and actual experience related to theories and techniques currently used for behavior change. Individual psychotherapy, family therapy, transactional analysis, rational emotive therapy and behavior modification reviewed. May be taken without Psychotherapy and Behavior Change II. Prerequisites: Graduate standing in school or clinical psychology tracks and consent of coordinator.

**2001.566 PSYCHOTHERAPY AND BEHAVIOR CHANGE II (3)** Second of two semester sequence. Continued analysis of psychotherapy approaches through readings, lectures and experience. Prerequisites: 2001.565 and consent of coordinator.

**2001.567 PSYCHO-SOCIAL ASPECTS OF DISABILITY (3)** Psychosocial milieu on the disabled person's self-concept, approaches to facilitating autonomy and self-actualizing goals emphasized. Prerequisite: Graduate standing in psychology or consent of instructor.

**2001.568 MEDICAL ASPECTS OF DISABILITY (3)** Structure and function of bodily systems and implications of physical disabilities in coping with the problems of daily living. Prerequisite: 2001.101.

**2001.569 THE PSYCHOLOGICAL ASPECTS OF HEARING LOSS (3)** Psychological problems unique to the deaf/hearing disabled, with emphasis on communication, relationship, evaluation and vocational issues. Prerequisites: Graduate Standing.

**2001.570 REFERRAL RESOURCES FOR THE SCHOOL-AGE CHILD (3)** Referral services for emotional, vocational and behavioral adaptation of children in need of services beyond the classroom situation. Information about specialized facilities, both school- and community-sponsored. Prerequisite: 2001.511.

**2001.573 ADVANCED EXPERIMENTAL PSYCHOLOGY I (4)** Experimentation in the field of human behavior. Prerequisites: 2001.111, 2001.264 or equivalent; consent of department.

**2001.574 ADVANCED EXPERIMENTAL PSYCHOLOGY II (4)** Experimentation in the field of animal behavior. Prerequisite: 2001.111, 2001.261 or equivalent; consent of department.

**2001.575 PROSEMINAR I (3)** Issues and concepts in learning, motivation, and physiology. Prerequisite: 2001.261 or equivalent.

**2001.576 PROSEMINAR II (3)** Issues and concepts in social, developmental, personal, and abnormal psychology. Prerequisite: 2001.261 or equivalent.

**2001.577 LEARNING (3)** Major learning theories and models. Prerequisite: 2001.305 or consent of instructor.

**2001.579 SPECIAL TOPICS SEMINAR (1-3)** Current developments in psychology. Prerequisites: Vary with topic.

**2001.581 ADVANCED HISTORY AND SYSTEMS OF PSYCHOLOGY (3)** Ancient and modern psychological history drawing heavily from philosophy and physiology and psychology in various countries. Analysis of systems include a study of functionalism, structuralism, behaviorism, Gestalt and psychoanalysis.

**2001.584 COLLEGE TEACHING SEMINAR (3)** Materials and procedures for producing successful students in lower level courses.

**2001.585 COLLEGE TEACHING PRACTICUM (3)** Supervised teaching of introductory psychology. Prerequisite: 2001.584

**2001.587 ADVANCED EXPERIMENTAL DESIGN I (3)** Treatment of descriptive and inferential statistical methods and design considerations. Prerequisite: 2001.111 or equivalent.

**2001.588 ADVANCED EXPERIMENTAL DESIGN II (3)** Treatment of advanced analysis of variance designs and related techniques. Prerequisite: 2001.587 or equivalent.

**2001.589 MULTIVARIATE METHODS (3)** Multivariate statistical methods useful in behavioral scientific research. Topics: correlation, regression, factor analysis, discriminant analysis. Prerequisite: 2001.587.

**2001.593 INTERNSHIP IN COUNSELING (3)** Intensive experience within a counseling facility involving exposure to the many facets of a mental health professional, including administrative and record-keeping duties; individual and group counseling observations and experiences; referral resources, etc. Prerequisites: Advanced to degree candidacy and consent of instructor.

**2001.597 PRACTICUM IN CLINICAL PSYCHOLOGY (3)** Supervised experience in psychological interviewing, assessment, and psychotherapy. Practicum in which students will meet for individualized supervision with the practicum instructor. Prerequisites: 2001.520, 591, 592; M.A. candidacy in clinical psychology and consent of coordinator. Only open to students who have advanced to degree of candidacy.

**2001.603 PRE-SCHOOL ASSESSMENT (3)** Formal and informal assessment techniques including behavioral assessments and adaptive behavior scales. Prerequisites: Matriculation in school psychology track, consent of coordinator.

**2001.605 PRINCIPLES OF GUIDANCE (3)** Philosophy and a knowledge of the principles of guidance. Prerequisite: 2001.511 or the equivalent.

**2001.606 INTRODUCTION TO CAREER DEVELOPMENT (3)** Designed to familiarize students with aspects of career development, to introduce them to a variety of relevant resources and media and to assist them in integrating this knowledge by planning a program of career development for a specific group. Prerequisite: Graduate standing.

**2001.607 INFORMATION SERVICE IN GUIDANCE & COUNSELING (3)** Educational and vocational opportunities and community referral sources; including evaluation, classification and use of such information in a guidance and counseling program. Prerequisite: 2001.505.

**2001.608 MEDIA IN CAREER EDUCATION (3)** Production of videotapes, films, filmstrips, slides and audiotapes pertaining to the world of work. Workshop procedures are used to develop career education materials for use in a variety of employment settings. Prerequisite: 2001.607.

**2001.611 ANALYSIS OF THE INDIVIDUAL (3)** The individual, emphasizing data in the areas of vocational, educational and personal adjustment. Prerequisites: 2001.605 and 2001.411 (2001.605 may be taken concurrently)



**2001.615 ADVANCED SEMINAR IN PSYCHOTHERAPY (3)** Counseling and therapy techniques used by counselors and other professional personnel working with children and adults. Prerequisite: 2001.509.

**2001.617 THEORIES OF FAMILY COUNSELING (3)** Theoretical approaches and strategical methods of evaluating and counseling disturbed families. Prerequisites: 2001.509.

**2001.619 COUNSELING THE ELDERLY (3)** Medical and, psychosocial aspects of aging with emphasis on problems common to the elderly. Various counseling techniques and their effectiveness with the elderly are presented. Prerequisite: Graduate standing.

**2001.621 GROUP COUNSELING (3)** Theories, principles, and techniques of group counseling. Some additional topics to be covered are the role of the leader, problems of member selection, evaluation of group progress, and the ethics and training of group counselors. Prerequisite: 2001.509.

**2001.623 GROUP COUNSELING PRACTICUM (3)** Supervised practical experience in leading a counseling group. Prerequisites: 2001.621, consent of coordinator, and successful advancement to candidacy exam.

**2001.627 USE OF TESTS IN COUNSELING (3)** Practice in the use and analysis of techniques for understanding the individual with emphasis upon standardized procedures used in the public schools. Prerequisite: 2001.411.

**2001.630 COUNSELING THE ELEMENTARY SCHOOL CHILD (3)** The dynamics of child behavior, techniques of assessing and counseling. Study of the family, school, and community structures and their effect on the child. Prerequisite: 2001.509.

**2001.631 ADMINISTRATIVE AND CURRICULAR ASPECTS OF SCHOOL ENVIRONMENTS (3)** Theoretical and applied aspects of the functioning of school systems and the interface between psychology and the schools. Prerequisites: Matriculation in school psychology track, consent of coordinator.

**2001.633 ASSESSMENT AND TREATMENT OF EXCEPTIONAL CHILDREN (3)** Skill development in identification of and planning for the major exceptionalities in the schools. Stress on major diagnostic categories and relevant new techniques. Prerequisites: Matriculation in school psychology track, consent of coordinator.

**2001.645 PRACTICUM IN COUNSELING PSYCHOLOGY (3-3)** Supervised experience in educational, vocational and personal counseling. Must be taken in two separate semesters (3 credits per semester.) Prerequisites: Advancement to degree candidacy and consent of coordinator.

**2001.661 PSYCHODIAGNOSTICS II: PERSONALITY EVALUATION (3)** Administration, scoring and interpretation of currently used projective techniques. Grade given upon completion of Psychodiagnostics III. Prerequisites: Matriculation school or clinical psychology and consent of coordinator.

**2001.663 PSYCHODIAGNOSTICS III: CONSULTATION (3)** Advanced interpretation and data transmission. Consultation based upon intellectual and projective data and adaptive behavior.

**2001.671 PRACTICUM IN PSYCHODIAGNOSTIC EVALUATION (3)** Field work under the supervision of a certified or licensed psychologist. Prerequisites: 2001.661, advanced to candidacy, consent of school psychology.

**2001.673 PRACTICUM IN INTERVENTION TECHNIQUES (3)** Field work under the supervision of a certified or licensed psychologist. Students must be available for clinic or school placement. Stress on techniques appropriate for the schools. Prerequisites: Matriculation in school psychology track, evidence of academic preparation in intervention techniques, consent of school psychology coordinator.

**2001.690 SEMINAR IN PROFESSIONAL PSYCHOLOGY (3)** Treatment of legal, ethical and professional issues in psychology. Prerequisites: Consent of instructor.

**2001.798 THESIS (3 OR 6)**

**2001.799 THESIS CONTINUUM (1)**

Minimester only

**2001.010-001 SURVEY OF SERVICES FOR THE HANDICAPPED.**

**2001.010-001 Survey of Services for the Handicapped.**

## **SOCIOLOGY AND ANTHROPOLOGY**

Chairperson: Irwin Goldberg

### **SOCIOLOGY COURSES (2208)**

#### **Upper Division—Undergraduate and Graduate**

- 2208.009 WORK ORIENTATION COUNSELING (3) (Minimester)
- 2208.311 INDIVIDUAL AND SOCIETY (3)
- 2208.315 COMMUNICATIONS AND SOCIAL ORDER (3)
- 2208.322 SOCIOLOGY OF WAR AND PEACE (3)
- 2208.323 SOCIAL CHANGE (3)
- 2208.325 COLLECTIVE BEHAVIOR (3)
- 2208.327 URBAN SOCIOLOGY (3)
- 2208.329 DEMOGRAPHY (3)
- 2208.331 ORGANIZATIONS (3)
- 2208.332 SOCIOLOGY OF OCCUPATIONS AND PROFESSIONS (3)
- 2208.333 POLITICAL SOCIOLOGY (3)
- 2208.334 INDUSTRIAL SOCIOLOGY (3)
- 2208.335 MEDICAL SOCIOLOGY (3)
- 2208.339 COMMUNITY ORGANIZATION (3)
- 2208.341 CLASS, STATUS AND POWER (3)
- 2208.343 MINORITY GROUPS (3)
- 2208.351 SOCIAL DEVIANCE (3)
- 2208.353 CRIMINOLOGY (3)
- 2208.354 INTRODUCTORY TO CRIMINAL JUSTICE (3)
- 2208.355 JUVENILE DELINQUENCY (3)
- 2208.356 CORRECTIONS IN AMERICA (3)
- 2208.357 SOCIAL WELFARE (3)
- 2208.359 CRIMINOLOGY (3)
- 2208.360 INTRODUCTORY TO CRIMINAL JUSTICE (3)
- 2208.367 SOCIOLOGY OF DEATH, DYING AND BEREAVEMENT (3)

- 2208.370- TOPICS IN SOCIOLOGY (3, 3, etc.)  
.379
- 2208.381 SOCIOLOGICAL THEORY (3)
- 2208.391 RESEARCH METHODS (3)
- 2208.470- SPECIAL TOPICS IN SOCIOLOGY (3)  
.479
- 2208.485 SEMINAR IN SOCIOLOGY (3)
- 2208.491- SEMINAR IN SOCIOLOGY (3)  
.492
- 2208.495 INDEPENDENT RESEARCH (3)

## **ANTHROPOLOGY COURSES (2202)**

### **Upper Division—Undergraduate and Graduate**

- 2202.321 SEX ROLES IN CROSS-CULTURAL PERSPECTIVE (3)
- 2202.346 WEALTH, POWER AND POLITICS IN CROSS-CULTURAL  
PERSPECTIVE (3)
- 2202.364 RELIGION, MAGIC AND WITCHCRAFT (3)
- 2202.365 NORTH AMERICAN INDIANS (3)
- 2202.366 SOUTH AMERICAN INDIANS (3)
- 2202.367 PEOPLES OF THE MIDDLE EAST (3)
- 2202.369 TRADITION AND REVOLUTION IN LATIN AMERICAN  
SOCIETY (3)
- 2202.370- TOPICS IN ANTHROPOLOGY (3)  
.379
- 2202.381 ARCHAEOLOGICAL METHODS AND THEORY (3)
- 2202.383 NORTH AMERICAN ARCHAEOLOGY (3)
- 2202.385 ARCHAEOLOGY OF THE AMERICAN SOUTHWEST (3)
- 2202.388 PLEASANT CULTURES (3)
- 2202.401 ANTHROPOLOGICAL THEORY (3)
- 2202.470- TOPICS IN ANTHROPOLOGY: FIELD ARCHAEOLOGY (3)  
.479
- 2202.491- PRACTICUM IN ANTHROPOLOGY I, II (3-6)  
.492
- 2202.495 INDEPENDENT RESEARCH (3)

## **SPEECH AND MASS COMMUNICATION**

Chairperson: Irene Shipman

Graduate Departmental Coordinator, Mass Communication Program:

Marlene Cowan

## **MASS COMMUNICATION COURSES (0605)**

### **Upper Division—Undergraduate and Graduate**

- 0605.315 BUSINESS AND PROFESSIONAL COMMUNICATION (3)
- 0605.351 PUBLIC OPINION AND THE PRESS (3)
- 0605.353 PUBLICITY AND PUBLIC RELATIONS (3)
- 0605.356 FEATURE WRITING (3)
- 0605.358 NEWS EDITING AND COPY READING (3)
- 0605.363 HISTORY OF FILM (3)
- 0605.364 AESTHETICS OF THE FILM (3)
- 0605.367 TELEVISION WRITING (3)
- 0605.385 MASS MEDIA IN MODERN SOCIETY (3)

- 0605.421 FINANCIAL COMMUNICATIONS (3)
- 0605.451 PUBLIC RELATIONS FOR NON-PROFIT ORGANIZATIONS (3)
- 0605.453 ADVANCED PUBLICITY AND PUBLIC RELATIONS (3)
- 0605.460- PRACTICUM IN MASS COMMUNICATIONS (1-6)
- .469
- 0605.475 FILM WORKSHOP (3)
- 0605.485 NEWSPAPER IN EDUCATION (3)
- 0605.491 INDEPENDENT STUDY IN FILM (1-6)
- 0605.493 INDEPENDENT STUDY IN RADIO (1-6)
- 0605.495 INDEPENDENT STUDY IN TELEVISION (1-6)
- 0605.496 INDEPENDENT STUDY IN JOURNALISM (1-6)
- 0605.497 INDEPENDENT STUDY IN PUBLIC RELATIONS (1-6)

#### **Graduate Division**

**0605.501 MEDIA WRITING (3)** Study of and practice in media writing techniques. Emphasis on style, structure, content and purpose. Prerequisites: Undergraduate degree in mass communication or 0605.355 or 0605.356 or 0605.367 or equivalent.

**0605.503 CRITICISM IN MASS MEDIA (3)** Examination and criticism of film and television with the focus upon aesthetic, commercial and production values that affect these media. Prerequisites: 0605.201 or 0605.202 or 0605.363 or 0605.364 or equivalent.

**0605.515 ADMINISTRATIVE & PROFESSIONAL COMMUNICOLOGY (3)** Communication practices and problems within business and corporations. Emphasis on relationship between management-employee effectiveness, conflict management and resolution, and business communication formats. Prerequisites: 0605.315 or equivalent.

**0605.521 MASS MEDIA LAW & REGULATIONS (3)** Legal limits on freedom of the press, Constitutional guarantees, libel, contempt, obscenity, privacy, ethical problems, the right to know. Origins and concepts of freedom of information and its evolution in constitutional law and judicial decisions; contemporary problems of censorship in publishing, broadcasting, and film.

**0605.551 MEDIA AND POLITICS (3)** Relationships between the mass media and the political system. The influence of the media on political careers, the adversary and support roles of the media. Prerequisite: Undergraduate degree.

**0605.570-579 SPECIAL TOPICS IN MASS COMMUNICATION (3)** Exploration of current media topics. Prerequisites: Varies with each topic.

**0605.580 SEMINAR IN MEDIA MANAGEMENT: BROADCAST STATION MANAGEMENT AND OPERATIONS (3)** Functions, advertising, network and labor relations, internal organizational structure and operational procedures of broadcast management. Philosophies and theories of management, programming, audience research, budgeting and accounting principles, sales and regulatory functions. Prerequisites: 0605.201, 0605.261 or 0605.265 or equivalent.

**0605.585 SEMINAR IN MEDIA PRODUCTION: PUBLIC RELATIONS (3)** Theories, practices and management of public relations with case study projects. Prerequisites: 0605.353 or equivalent.



**0605.586 SEMINAR IN MEDIA PRODUCTION: TELEVISION (3)** Aesthetic and technical aspects of multi-camera television studio production: camera operation and techniques, lighting and audio, technical direction and producing. Prerequisite: 0605.271.

**0605.587 SEMINAR IN MEDIA PRODUCTION: NEWSPAPERS (3)** Newspaper production and its relationship to other aspects of its operation. Traditional and new newspaper technology. Prerequisite: 0605.501.

**0605.589 SEMINAR IN MEDIA PRODUCTION: FILM (3)** The examination of advanced 16mm filmmaking practice in both pre-production and post-production leading to the completion of a professional quality 16mm release print. Individual cost to the student will be determined by the selected student project. Prerequisites: 0605.202, 0605.267 and 0605.367 or equivalent.

**0605.595 DIRECTED READINGS IN MASS COMMUNICATION (3)** Directed readings in selected areas of mass communication. Prerequisites: graduate standing and consent of graduate coordinator.

**0605.601 MEDIA INTER-RELATIONSHIPS (3)** Examination of the interactions among the mass media, including message-media systems. Prerequisite: 0605.501.

**0605.611 THEORIES IN MASS COMMUNICATION (3)** Theories relating to the communicator, message, channel, audience, and effects components of mass communication. Prerequisites: 2001.111 or 1701.231 or equivalents.

**0605.621 RESEARCH METHODS IN MASS COMMUNICATION (3)** Study of the research tools and sources in communication. Prerequisite: 2001.111 or 1701.231 or equivalents.

**0605.681 INTERNSHIP IN JOURNALISM (3)** Supervised work in a professional journalistic setting. Prerequisites: 0605.501, three additional MCOM graduate credits and consent of instructor.

**0605.683 INTERNSHIP IN PUBLIC RELATIONS (3)** Supervised work in a professional public relations setting. Opportunity to relate theory and practice. Prerequisites: 0605.353, 0605.501 and three MCOM graduate credits. Consent of instructor required.

**0605.798 THESIS (3 or 6)** A carefully executed and accurate recording of a specific topic in mass communication. An acceptable research methodology must be utilized. Includes an outline of the proposed thesis submitted for approval to graduate advisor. Prerequisites: The student must be advanced to degree candidacy and have completed all of the required core courses.

**0605.799 THESIS CONTINUUM (1)**

## **GENERAL SPEECH COURSES (1506)**

**Upper Division—Undergraduate and graduate**

1506.304 PERSUASION (3)

1506.320 READER'S THEATRE (3)

1506.395 INDEPENDENT STUDY IN ORAL INTERPRETATION (1-6)

1506.411 INDEPENDENT STUDY IN CHAMBER THEATRE (1-6)

1506.423 ADVANCED ORAL INTERPRETATION OF LITERATURE (3)

1506.432 THE COACHING AND MANAGEMENT OF FORENSICS (3)

1506.493 INDEPENDENT STUDY IN READERS' THEATRE (1-6)

## **PUBLIC ADDRESS COURSES (1598)**

- 1598.403 CLASSICAL AND MODERN RHETORIC (3)
- 1598.405 AMERICAN PUBLIC ADDRESS (3)
- 1598.406 BRITISH PUBLIC ADDRESS (3)
- 1598.495 INDEPENDENT STUDY IN PUBLIC ADDRESS (1-6)

## **THEATRE ARTS**

Chairperson: C. Richard Gillespie

### **THEATRE ARTS COURSES (1007)**

#### **Upper Division—Undergraduate and Graduate**

- 1007.307 THEATRE ARTS FOR CHILDREN (3)
- 1007.331 PLAYDIRECTING I (3)
- 1007.355 STAGE LIGHTING (3)
- 1007.361 DESIGN FOR THE STAGE (3)
- 1007.371 THEATRE GAMES I (1)
- 1007.372 THEATRE GAMES II (1)
- 1007.401 THEATRE AS A PROFESSION (1)
- 1007.407 THEATRE ARTS FOR CHILDREN—ADVANCED (3)
- 1007.421 PLAY DIRECTING II: THE CONTEMPORARY PLAY (3)
- 1007.431 DIRECTING THE PERIOD PLAY (3)
- 1007.441 COSTUME DESIGN (3)
- 1007.471 PRODUCING STORY THEATRE IN THE SCHOOLS (2)
- 1007.473 WORKSHOP IN THEATRE GAMES TECHNIQUES (3)
- 1007.480 PROBLEMS IN DESIGN AND TECHNICAL THEATRE I (1-3)
- 1007.481 PROBLEMS IN DESIGN AND TECHNICAL THEATRE II (1-3)
- 1007.482 PROBLEMS IN DESIGN AND TECHNICAL THEATRE III (1-3)
- 1007.485 ADVANCED THEATRE WORKSHOP FOR SECONDARY SCHOOL TEACHERS (6)
- 1007.486 WORKSHOP IN THEATRE PRODUCTION FOR SECONDARY SCHOOL TEACHERS (6)
- 1007.487 PROFESSIONAL THEATRE SEMINAR (12)
- 1007.493 PROBLEMS IN THEATRE I, II, III, IV, V, VI (1-3)
- 1007.499 SPECIAL PROJECT IN THEATRE RESEARCH (3)



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DONALD H. CRAVER	ENGLISH
ANTHONY DiCESARE	COUNSELING PSYCHOLOGY
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